Operating Instructions

STEREO FILE-TYPE CD CASSETTE DECK RECEIVER

XR-J2500F

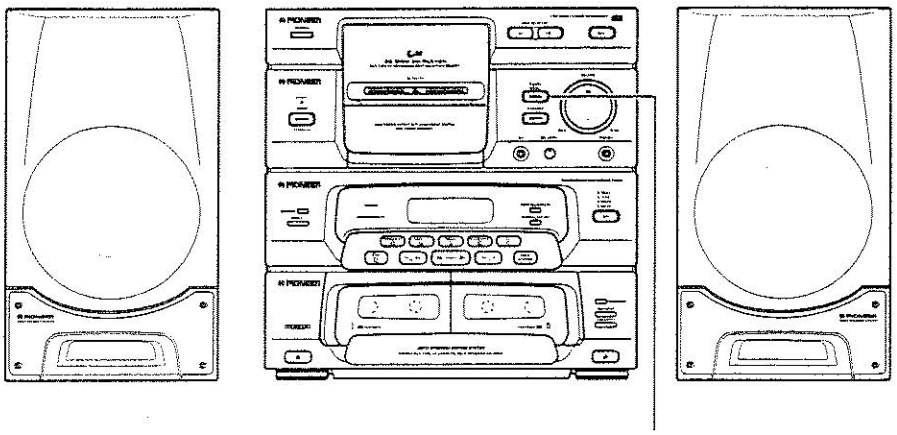
SPEAKER SYSTEM

S-J2500

S-J2500D

COMPACT disc DIGITAL AUDIO

25 DISC



DEMO

Illustrations shows XR-J2500F and S-J2500D.

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DEMO FUNCTION

If you connect the power plug to a wall outlet, power to the unit switches ON, and DEMO mode operation starts. And if the P.BASS (DEMO) button is pressed when the power is OFF, the demonstration mode will be selected and power will be turned ON automatically.

- To exit the demo mode, press either the POWER STANDBY/ON switch or P.BASS (DEMO) button on the main unit or the POWER button on the remote control unit.

ATTENTION : POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

PIONEER®

The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code :

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows :
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE
After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost, replacement fuse covers can be obtained from: your dealer.
Only 5 A fuses approved by B.S.I. or A.S.T.A. to B.S. 1362 should be used.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

CART — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

NEC — NATIONAL ELECTRICAL CODE

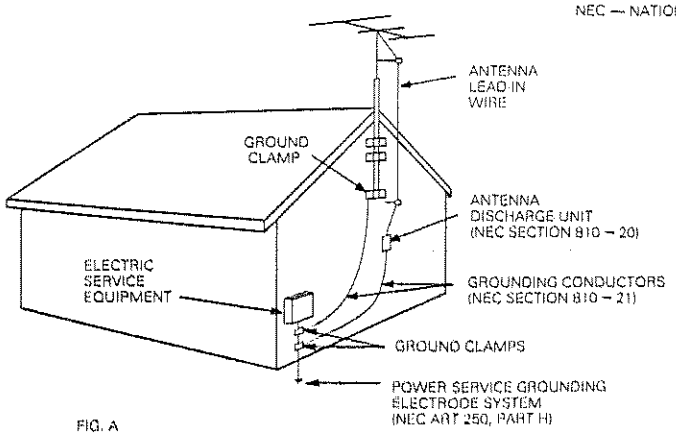


FIG. A

[FOR U.K. AND EUROPEAN MODELS]

CAUTION
This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appears on your unit.

Location : rear of the unit

CLASS 1
LASER PRODUCT

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

POWER-CORD CAUTION
Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

[For Canadian model]
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

[Pour le modèle Canadien]
Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NOTE IMPORTANTE SUR LE CABLE D'ALIMENTATION
Tenir le câble d'alimentation par la fiche. Ne pas débrancher la prise en tirant sur le câble et ne pas toucher le câble avec les mains mouillées. Cela risque de provoquer un court-circuit ou un choc électrique. Ne pas poser l'appareil ou un meuble sur le câble. Ne pas pincer le câble. Ne pas faire de noeud avec le câble ou l'attacher à d'autres câbles. Les câbles d'alimentation doivent être posés de façon à ne pas être écrasés. Un câble abîmé peut provoquer un risque d'incendie ou un choc électrique. Vérifier le câble d'alimentation de temps en temps. Contacter le service après-vente PIONEER le plus proche ou le revendeur pour un remplacement.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

This product complies with the Low Voltage Directive (73/23/EEC), EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

CAUTION
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

[FOR U.S. MODEL]
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

— Consult the dealer or an experienced radio/TV technician for help.

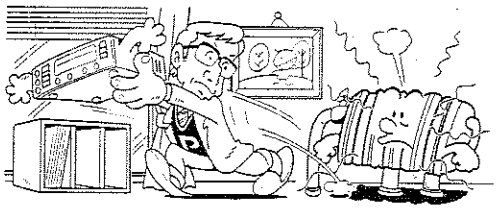
CONTENTS

CAUTIONS REGARDING HANDLING 4
CONFIRM SUPPLIED ACCESSORIES 5
LOADING BATTERIES INTO REMOTE CONTROL UNIT 5
REMOTE CONTROL OPERATIONS 5
CONNECTIONS 6
FRONT PANEL FACILITIES 8
SETTING THE CLOCK 10
TURNING ON THE POWER 11
Turning power ON without using the POWER switch 11
TUNING INTO STATIONS 11
Beat cut function 11
MEMORIZING STATIONS 12
Manual presetting 12
Station call 12
CAUTIONS REGARDING COMPACT DISC HANDLING 13
HOW TO HANDLE CASSETTE TAPES 13
READ THIS BEFORE OPERATING THE CD PLAYER 14
LISTENING TO COMPACT DISCS 14
Before operating the player 14
Listening to tracks in order from the first track 15
Select the disc play mode 15
CONVENIENT CD FUNCTIONS 16
To play back desired tracks 16
Best selection memory 16
Programmed play 17
To repeat playback (Repeat play) 18
Random play 18
Fast track search (Hi-Lite Scan) 19
Previous disc scan 19
Changing the display 19
PLAYING TAPES 20
Basic operation 20
RECORDING 21
Recording on tape 21
Copying a tape 21
RECORDING FROM A CD TO CASSETTE TAPE 22
A.S.E.S. (Auto Synchro Editing System) 22
Using the A.S.E.S. Function 22
SOUND FIELD EFFECTS 23
Selecting a preset sound setting 23
Boosting the bass sound 23
FUN WITH KARAOKE FUNCTIONS 24
WAKE-UP TIMER 25
Setting the wake-up timer 25
TIMER RECORDING 26
Timer recording setting 26
SLEEP TIMER 26
CONNECTING A CD PLAYER TO THIS UNIT 27
TROUBLESHOOTING 28
MAINTENANCE 29
SPECIFICATIONS 30

CAUTIONS REGARDING HANDLING

Location

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.
Do not install the unit in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may result in a malfunction or accident. (Also avoid installation near cookers, etc., where the unit may be exposed to smoke from oil, steam, or heat.)
Do not install the unit on a tottered stand, nor on an unstable or inclined surface.



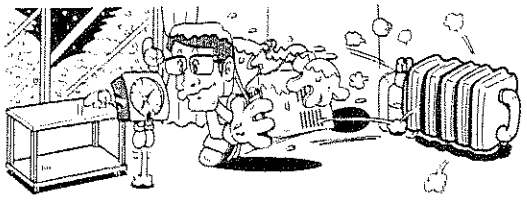
Precautions regarding installation

- Placing and using the unit for long periods on heat-generating sources will affect performance. Avoid placing the unit on heat-generating sources.
- Install the unit as far away as possible from your TV. Installation in close proximity to such equipment may cause noise or degradation of the picture.
- Such noise may be particularly noticeable when an indoor antenna is used. In such cases, make use of an outdoor antenna, or turn off the power of the unit.
- Please place this unit on a level surface.

There is a vent for the cooling fan on the rear of this unit. Blocking or obstructing this vent may result in faulty operation, so make sure there is a space of at least 10cm between the rear of the unit and the wall or other surface.

Condensation

When this unit is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside and the unit may not be able to attain its full performance. To prevent this, allow the unit to stand for about an hour before switching it on or raise the room temperature gradually.

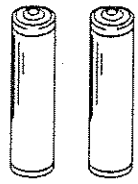


This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

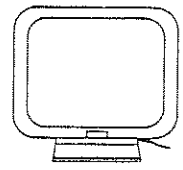
CONFIRM SUPPLIED ACCESSORIES

Remote control unit x 1

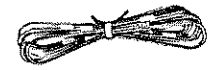
AA/R6 dry cell batteries x 2



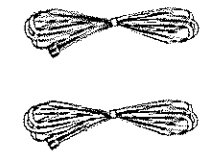
AM loop antenna x 1 (shown assembled)



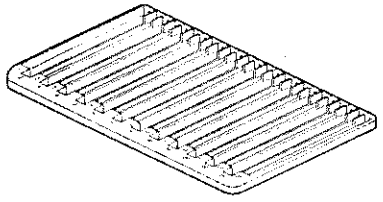
FM antenna x 1

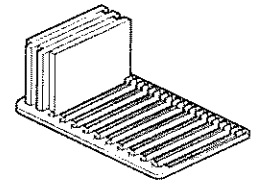


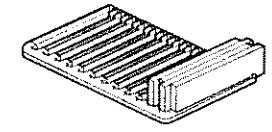
Speaker cords x 2 (S-J2500 U.K. and European models) Supplied with speaker system



CD case stand x 1





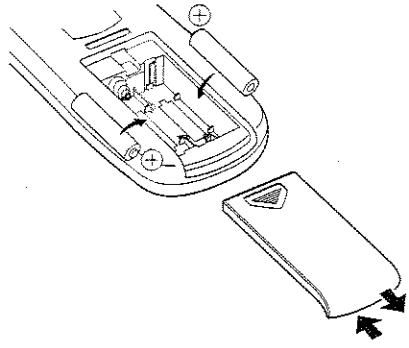


I see!
It's convenient to match the disc case number with the number of the disc loaded in the unit.

Note!!
Some disc cases (like two-disc cases) may not fit.

- Load single CD cases as shown in the figure.

LOADING BATTERIES INTO REMOTE CONTROL UNIT



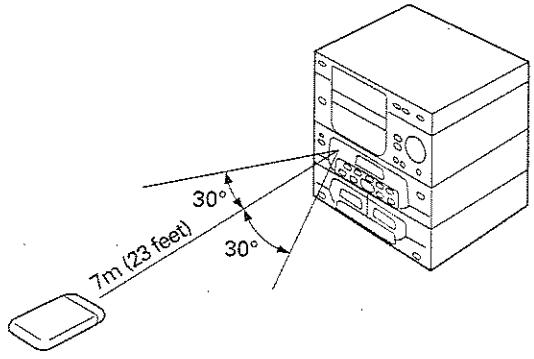
Open the battery compartment cover on the back of the remote control unit.
Insert size AA/R6 dry cell batteries into the battery compartment in accordance with the indications (⊕, ⊖) inside the compartment.
Close the cover of the battery case.

Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:
A. Always insert batteries into the battery compartment, correctly matching the positive ⊕ and negative ⊖ polarities, as shown by the display inside the compartment.
B. Never mix new and used batteries.
C. Batteries of the same size may have different voltages, depending on brand. Do not mix different brands of batteries.

REMOTE CONTROL OPERATIONS

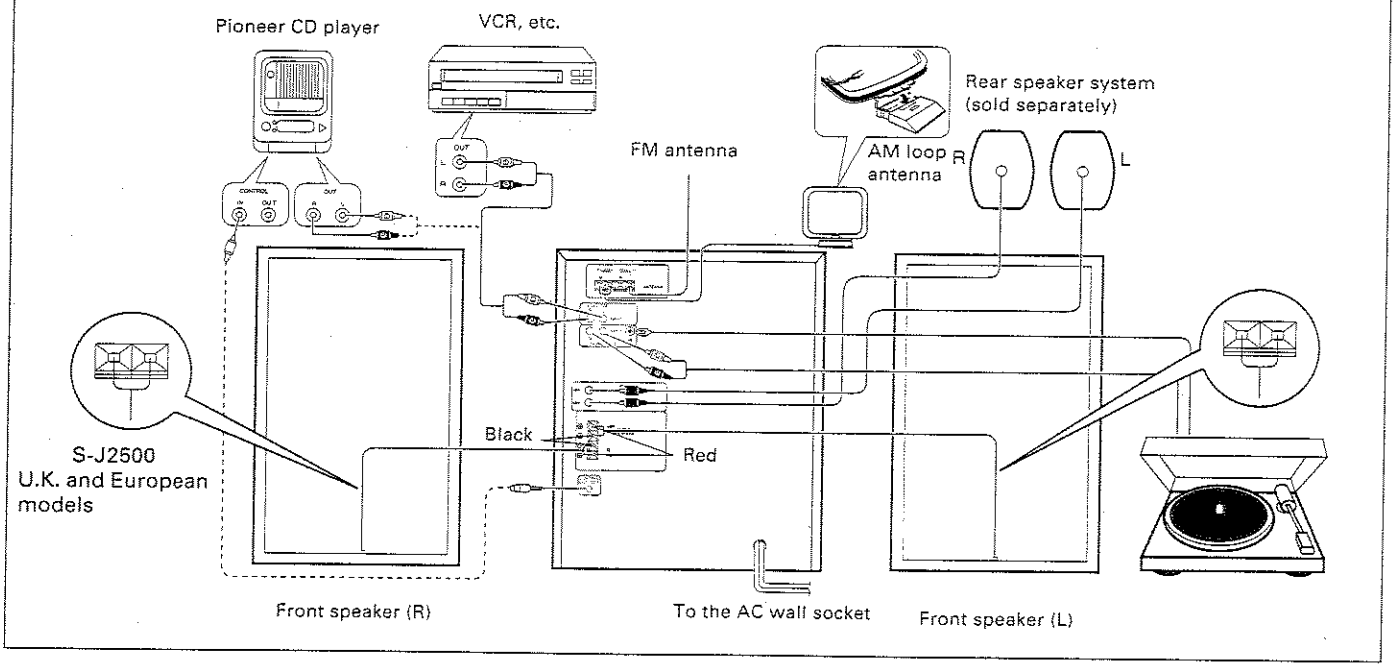
The remote control unit can be used within a range of approx. 7 meters (23 feet) from the remote sensor, and within angles of up to approx. 30 degrees.

- If the remote control sensor window is in a position where it receives strong light such as sunlight or fluorescent light, control may not be possible.



CONNECTIONS

Illustration shows U.S. model.



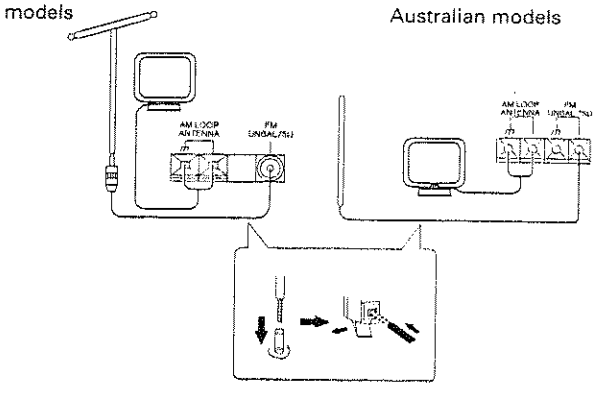
Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.

- **Use this unit on a flat surface.**
- Be sure to connect an antenna. If you do not, broadcast signal reception will not be possible.

1. **Connect AM loop antenna and FM antenna to the unit's antenna terminals.**

U.K. and European models

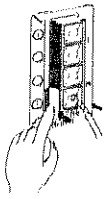
U.S., Canadian and Australian models



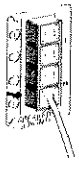
2. **Connect the speaker cords to the SPEAKERS terminal.**
Connect the red cords to the "+" (red) terminals and the black cords to the "–" (black) terminals.

① **Twist the wire strands.**

② **Push away the tab and insert the cord into the terminal.**



③ **Pull back the tab. Be sure to tighten the cords firmly.**

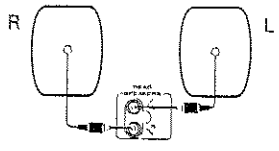


NOTE:
Do not allow the conductors of the cords to project out of the terminals or to come into contact with other conductors. A breakdown or failure may occur when conductors touch.

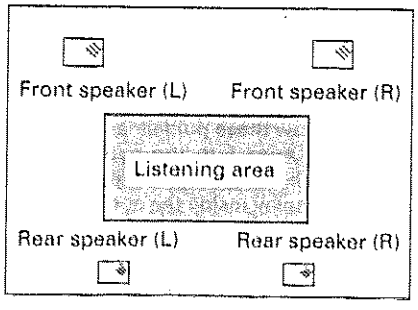
Speaker impedance
Connect speaker systems with a nominal impedance range from 8 Ω to 16 Ω.

Rear speaker system connection

- Connect the plugs properly.
- **U.S. and Canadian models:**
Use the separately sold speaker system S-P55.
Rear speaker equipped with standard RCA pin plugs and with nominal impedance of 24 Ω or more can be connected instead of S-P55.
- **U.K., European and Australian models:**
Use the speaker system equipped with standard RCA pin plugs and with nominal impedance of 16 Ω or more.



Rear speaker system installation example



When mounting rear speaker system on a wall

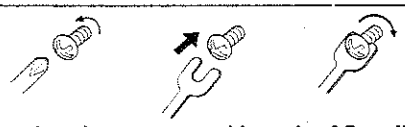
- Use the hole located on the rear panel of the speaker to mount it on a wall. Make sure the speakers will not drop when they are mounted on a wall.
- Check if the wall is strong enough to hang the speakers on it. PIONEER disclaims the responsibility for damages due to dropping of the speakers and other accidents, which are caused by inappropriate strength of the wall or improper installation.
- No screws or other fittings are supplied to mount the speaker on the wall.

Precaution for the S-J2500 and S-J2500D

Do not connect to any amplifier other than the one supplied with this system. Connection to any other amplifier may in rare cases result in smoke or fire.

3. **When using a video cassette recorder, connect the output cord to the AUX II/CD II input jacks.**
4. **You can connect this unit to a Pioneer CD player equipped with a control jack.**
   For more details, refer to page 27.
5. **Connect the turntable connection cords to the CD casstte deck receiver's jacks.**
   To connect the ground cord, loosen the screw on the ⏚ terminal, insert the cord, and then tighten the screw.

A turntable can be connected if the turntable has a built-in phono equalizer/preamp.



6. **Finally, plug the power cord into the AC wall outlet.**

NOTE:

Insert the plugs securely into the jacks. Improper connection may cause lead to sound distortion or malfunction.

ANTENNA CONNECTIONS

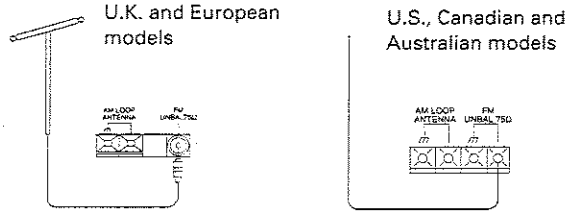
Radio reception is not possible unless the antenna is properly connected.

The strength of broadcast signals varies from one area to another. Signal propagation is especially poor in metropolitan areas, where there are many tall buildings and in mountainous areas. Proper antenna installation is vital to good reception.

FM ANTENNA

FM antenna

Stretch the antenna and affix it to a wall, etc.

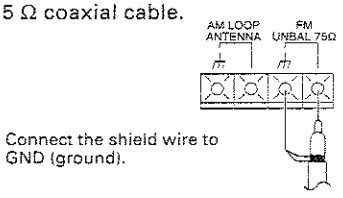


External FM antenna installation

Use an external antenna when the signals from the stations are weak and cannot be picked up by the accessory FM antenna, or when the sound heard is accompanied by too much noise.

U.S., Canadian and Australian models.

Connect a 75 Ω coaxial cable.



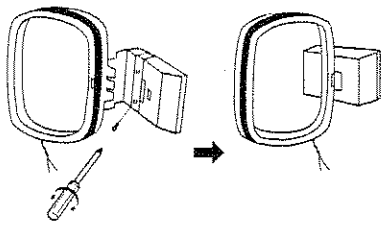
AM ANTENNA

The antenna should be placed at a distance from this unit, and should not be allowed to touch metallic objects. Avoid placing it near CD players, personal computers, television sets and other devices generating radio frequencies.

- Place the antenna on a level surface and rotate it to find the orientation that yields the best reception.

To attach the antenna to a wall, etc.

1. Select the place that yields the best reception.
2. Screw the leg to the wall, etc.
3. Insert the claw on the bottom of the antenna into the groove on the leg.



External AM antenna

Indoor AM antenna

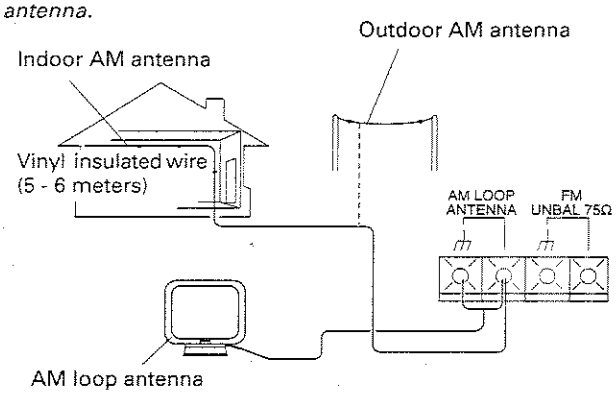
Provide a vinyl-coated wire (5 to 6 meters long). Secure one end to the AM terminal and the other end to a wall or other high location.

Outdoor AM antenna

If reception is still poor even when a lead antenna has been fully extended indoors, stretch out a vinyl-coated wire and secure it outdoors.

NOTE:

Do not detach the AM loop antenna when using the external AM antenna.



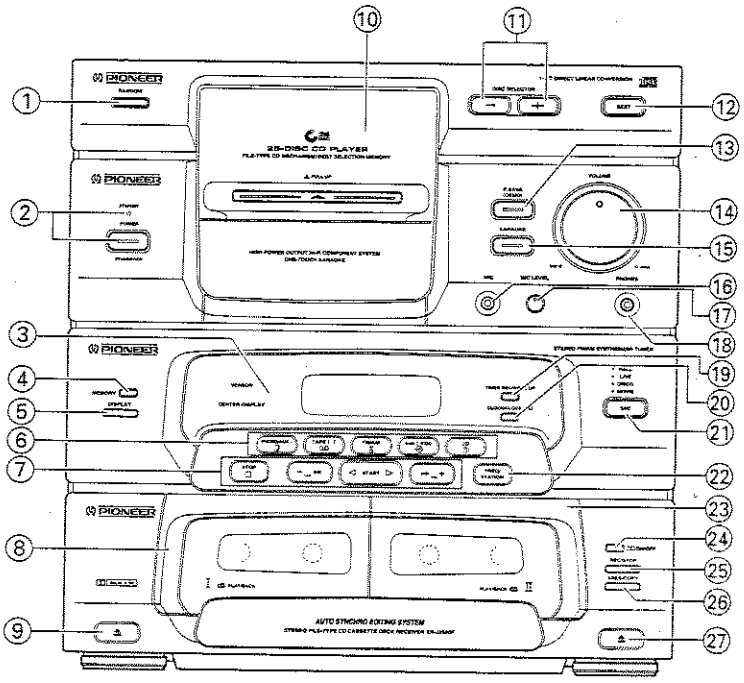
The ⏚ (signal earth) helps reduce noise when an antenna is connected. It is not a safety earth.

When moving the unit

Remove all the discs, and then unplug the power cord from the wall socket about 10 seconds after a CD has stopped playing.

- Leaving discs in the rack when you move it may result in damage.
- When packing the unit or removing it from its box, be sure not to touch the front.

FRONT PANEL FACILITIES



① RANDOM button

② POWER STANDBY/ON switch and STANDBY indicator
This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. (The STANDBY indicator lights.)

③ Remote sensor (SENSOR)

④ MEMORY button

⑤ DISPLAY button

⑥ Function buttons

⑦ Common operation button section (Refer to page 9)

⑧ TAPE I cassette door

⑨ TAPE I Eject button (▲)

⑩ Hood

⑪ DISC SELECTOR button (–, +)

⑫ BEST button

⑬ P.BASS (DEMO) button

⑭ VOLUME control

⑮ KARAOKE button

NOTE:
If KARAOKE is selected, the center vocal part is muted and the instrumental accompaniment (backup) is played.

⑯ Microphone jack (MIC)

⑰ Microphone level (MIC LEVEL)

⑱ Headphones jack (PHONES)

⑲ TIMER REC/WAKE-UP button

⑳ CLOCK/CLOCK ADJ button

㉑ SFC button
Each time this button is pressed, the mode changes in the following sequence:

HALL → LIVE → DISCO → MOVIE → off → HALL

㉒ FREQ/STATION button

㉓ TAPE II cassette door

㉔ Dolby* NR ON/OFF button
Each time this button is pressed, the Dolby NR system turns on and off.

㉕ REC/STOP button

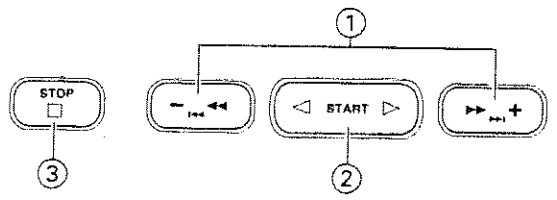
㉖ ASES/COPY button

㉗ TAPE II Eject button (▲)

*

- *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
- *"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.*

Common operation button section



① ⏮, ⏭ buttons

② START button (◄ ►)

③ STOP button (■)

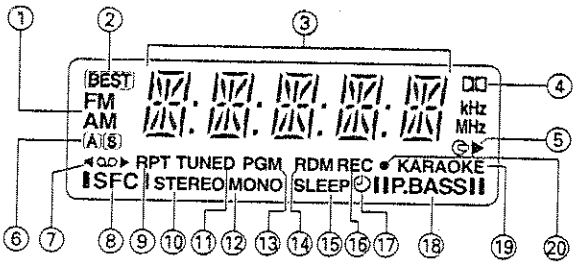
- Roles of the common operation buttons (The roles of the buttons vary depending on the input functions as shown below.)

During CD input
START : Play/pause button
STOP : Stop button
⏭ : Fast forward/track search button
⏮ : Fast reverse/track search button

During cassette deck input
START : Play button/Tape transport direction
STOP : Stop button
⏭ : Fast forward button
⏮ : Rewind button

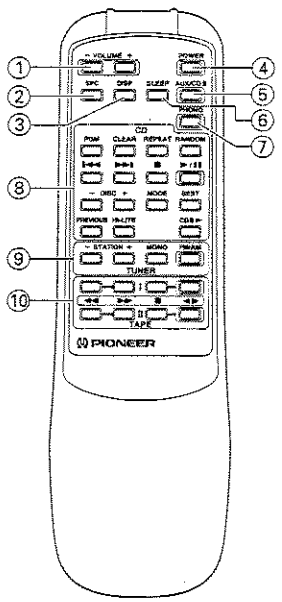
During tuner operation
⏭ : Frequency Up button
⏮ : Frequency Down button

Display



① Indicates the band AM or FM.
② Flashes during Best Selection setting, and lights during BEST (Selection memory) play.
③ Indicates frequency and major operation status.
④ Lights when Dolby NR is ON.
⑤ Lights during CD play.
(Flashes in pause mode.)
⑥ S : Lights during SINGLE mode operation.
A : Lights during ALL mode operation.
⑦ Lights to show TAPE II tape direction.
⑧ Lights during SFC mode operation.
⑨ RPT : Lights during repeat play.
⑩ Lights during FM stereo reception.
⑪ Lights during radio broadcast reception.
⑫ Lights when you press the MONO button.
⑬ Lights when you press the PGM button.
⑭ Lights when you press the RANDOM button.
⑮ Lights during sleep timer operation.
⑯ Lights during recording and recording timer operation.
⑰ Lights when you setting the timer.
⑱ Lights when you press the P.BASS button.
⑲ Lights during KARAOKE mode operation
⑳ Lights when setting the Beat Cut function.

REMOTE CONTROL UNIT



① VOLUME + (up), – (down) button
Increases/decreases the sound volume of the unit.

② SFC : SFC button

③ DISP : DISPLAY button

④ POWER button

⑤ AUX/CD II button
Press to switch the function to AUX II/CD II.

⑥ SLEEP button

⑦ PHONO button
Press to switch the function to PHONO/AUX I.

⑧ CD operation buttons

PGM : Program button
CLEAR : Clear button
REPEAT : Repeat button
RANDOM : Random button
I◄◄, ►►I : Track search
■ : Stop
►/II : Play/Pause
DISC –, + : Disc select
MODE : CD Mode button
BEST : Best button
PREVIOUS : Previous button
HI-LITE : Hi-Lite button
CD II ► : CD II play (Refer to page 27 for details)

⑨ TUNER operation button

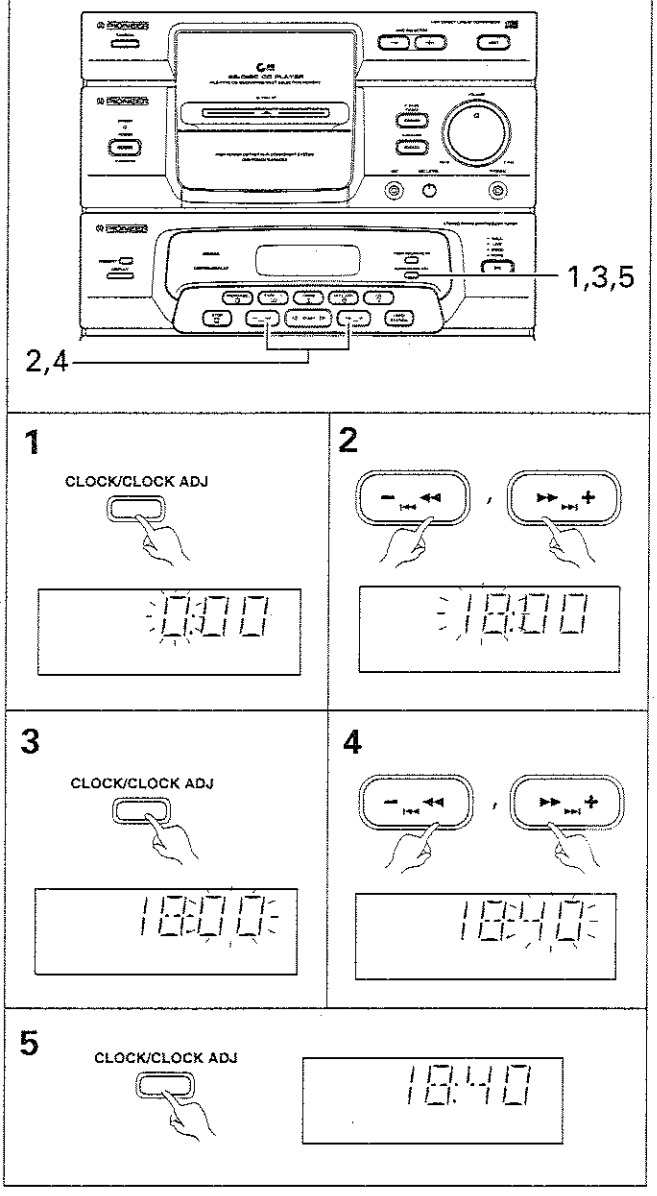
STATION –, + :
Before operation, memorize broadcast stations with the STATION –, + and MEMORY buttons on the unit.
+ ..... Stations change in order in the upward direction.
– ..... Stations change in order in the downward direction.

MONO : MONO button
FM/AM : FM/AM band button

⑩ TAPE I, II operation buttons

◄◄, ►► : Fast
■ : Stop
◄ ► : Play

SETTING THE CLOCK



- Set the clock when it has been incorrectly set or when power has been cut to the unit.
- This clock provides a 24 hour display.
- The clock cannot be set by the remote control unit.

Example : Setting the clock to 18:40.

1. **Keep pressing the CLOCK/CLOCK ADJ button for more than 3 seconds to light the display.**
2. **Set the hour by pressing the (–) or (+) button.**
3. **Press the CLOCK/CLOCK ADJ button.**
4. **Set the minutes by pressing the (–) or (+) button.**
5. **Press the CLOCK/CLOCK ADJ button, when "00" seconds of that minute are reached for precise adjustment.**

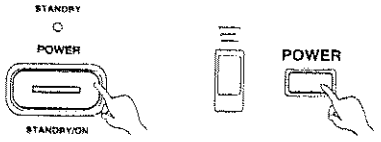
- After connecting to an AC outlet, be sure to set the present time. Timer playback and timer recording are not possible unless the time has been set.
- When power is on, pressing the CLOCK/CLOCK ADJ button will cause the time to be displayed for about 3 seconds.

TURNING ON THE POWER

Operations indicated by the [ ] mark are performed with the remote control unit.

- Read "CONNECTIONS" again and ensure that speakers, antenna, etc., are connected properly.

Press the POWER switch.

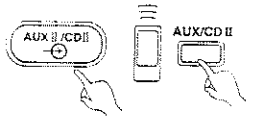
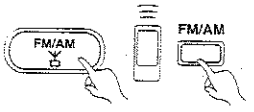
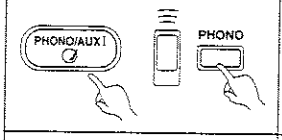
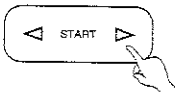


To switch the power OFF:

Press the POWER switch again.
The clock display reappears and the STANDBY indicator lights.

Turning power ON without using the POWER switch

Performing any of the following operations while the system power is off (STANDBY) turns the power ON.

	If a CD has been loaded, it starts to play.
	If the connected component is operating, it starts to play.
	The tuner (radio) input is selected.
	If a cassette tape has been loaded, it starts to play.
	If the connected component is operating, it starts to play.
	The function which has been selected before the last time the power was switched off is selected and the corresponding operation starts.

To change the frequency step

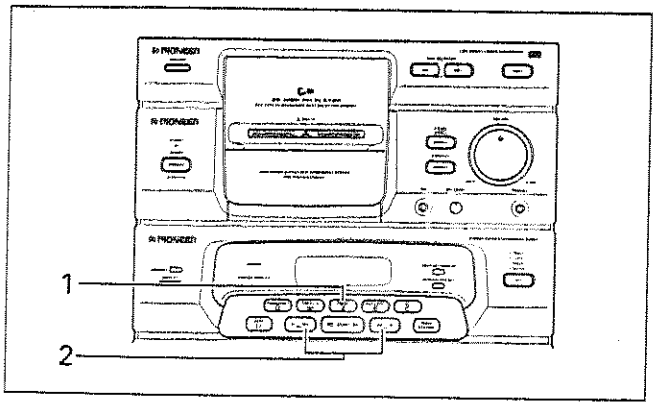
The frequency step (AM: 9 kHz/10 kHz, FM: 50 kHz/100 kHz) is preset depending on the area. If you need to change the step, follow the next procedure.

1. **Turn off the power.**
2. **While pressing the FREQ/STATION button, turn on the power.**

Repeat 1-2 to reset the frequency step.

TUNING INTO STATIONS

- Be sure to connect the antennas.
- Do not place the AM antenna on a metallic case including the receiver cabinet or near a CD player, LD player, DAT recorder, personal computer or TV set. Any of these installations will cause noise in reception.



1. **Press the tuner (FM/AM) function button.**
   Select the FM or AM broadcasting band.
   Each time you press this button, FM and AM changes alternately.

   → FM → AM →

2. **Tune in the desired station by pressing the ⟵ or ⟶ button.**

- **Manual tuning**

Tap the ⟵ or ⟶ button in quick repetitions.

- **Auto tuning**

Press the ⟵ or ⟶ button for a second or two and remove your finger from it when the frequency starts to change.
→ The frequency changes automatically. When a station is received, the frequency stops changing and "TUNED" appears on the display.

- **High-speed manual tuning**

Press and hold the ⟵ or ⟶ button.
→ The frequency changes continuously and stops when your finger is removed from the button.

MONO button (Remote control unit only)

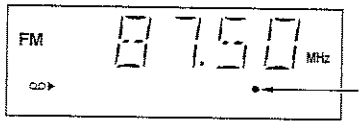
During FM reception: Switches between stereo and monaural modes when listening to a stereo broadcast. If there is a lot of noise in the stereo position, switch to MONO, and the noise will be suppressed.

Beat cut function

If noise occurs during recording an AM broadcast, perform the following procedures to reduce the noise.

1. **Press the POWER switch on this unit so that the STANDBY indicator lights up.**
2. **Turn on the power while pressing the MEMORY button. (The BEAT CUT indicator lights.)**

- To cancel the BEAT CUT function, repeat steps 1 and 2.

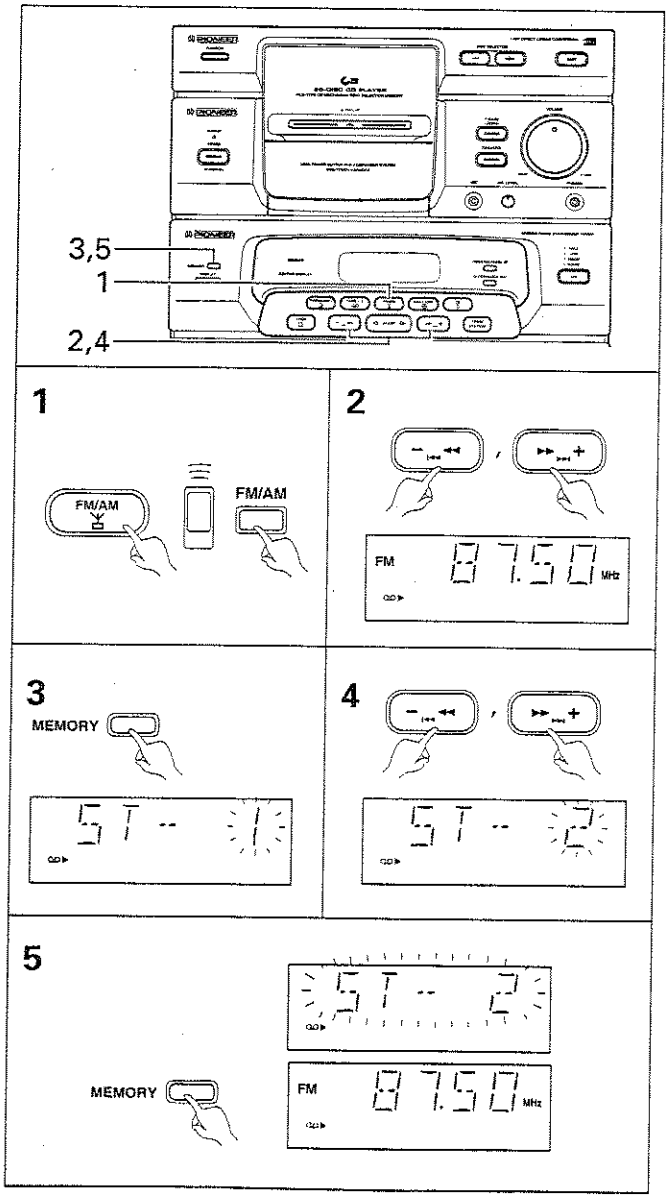


MEMORIZING STATIONS

Manual presetting

- Up to 24 FM/AM stations can be memorized at random.

Example : To memorize FM 87.50 MHz as preset station 2.

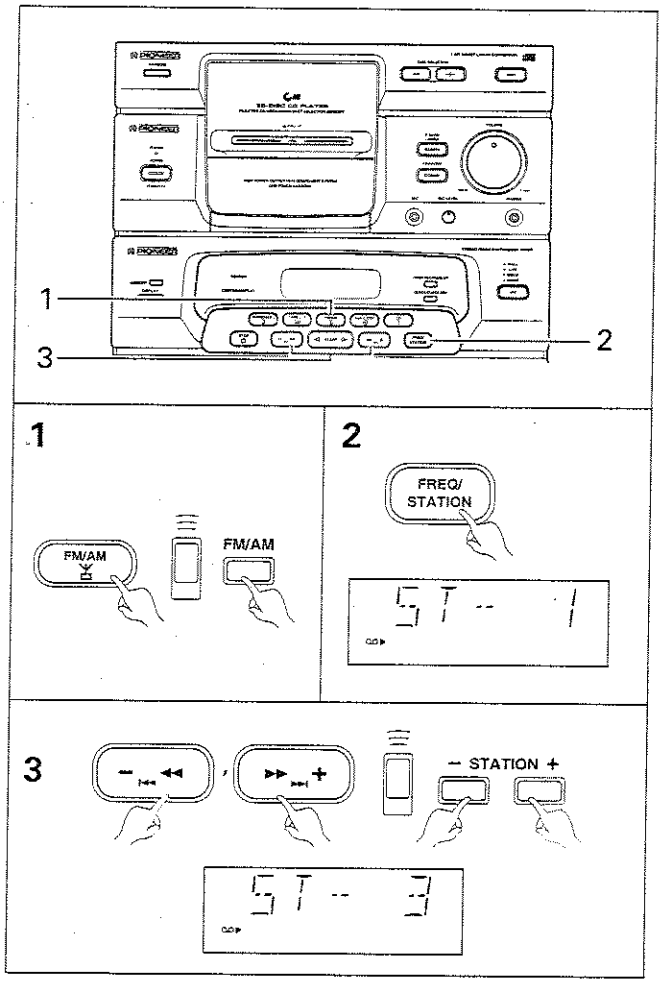


1. **Press the tuner (FM/AM) function button.**
2. **Tune into a desired broadcast station using the ⏮ or ⏭ button.**
   The ON/OFF setting of MONO button can also be memorized for each station set.
3. **Press the MEMORY button.**
4. **Select the station number to be memorized by pressing the ⏮ or ⏭ button.**
5. **Press the MEMORY button.**

NOTE:

If you memorize a station using a station number that already has a station assigned to it, the previous station is erased and the new one memorized.

Station call



1. **Press the tuner (FM/AM) function button.**
2. **Press the FREQ/STATION button to change the display to the station mode.**
   Each time you press the button, the frequency and station mode changes alternately as follows:

   → Frequency → Station mode →

   If you do not press a button within three seconds, you return to the Frequency mode.
3. **Press the ⏮ or ⏭ button to select the desired station.**

NOTES:

- *When recalling stations with the remote control STATION buttons, station call is also possible when you are in the frequency mode.*
- *The memorized stations will not be erased even when the power is turned off.*
  (Even if the AC power cord is unplugged or a power failure occurs, the memorized stations will be retained for several days.)
- *However if the memorized stations have been erased, memorize them again.*

CAUTIONS REGARDING COMPACT DISC HANDLING

CARE OF DISCS

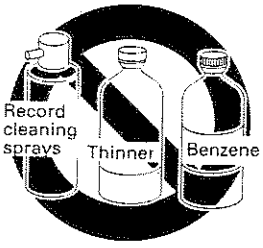
- When holding discs, do not touch their signal surfaces.
- Do not affix gummed labels or tape to the label surfaces. Also, do not scratch or damage the disc.
- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.

STORING DISCS

- Always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures.
- Always read and abide by the precautionary notes listed on the disc labels.

CLEANING DISCS

- Fingerprints or smudges on the surface of a disc will not directly affect the recorded signals. However, always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery.
- If a disc becomes very dirty, dip a soft cloth in water, and after wringing it out well, wipe the dirt away gently. Remove any water drops with another soft, dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.



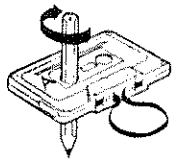
CD LENS CLEANER

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, consult your nearest PIONEER authorized service center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

HOW TO HANDLE CASSETTE TAPES

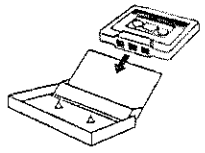
Is the tape loose, or is some of the tape sticking out of the cassette?

This will damage the tape itself. To remove the slack, insert a pencil into the spool and gently wind it.



Safekeeping

Put the cassette tape back into its case and store it in a location not exposed to magnetic field, humidity, dust, or oil.



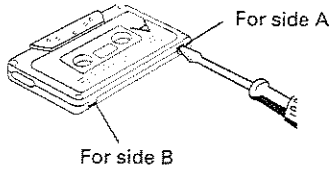
TIPS ON USING CASSETTE TAPES

- Leader tape (which does not allow sound to be recorded over it) is provided at the beginning of a cassette tape. Start recording after allowing the tape to run for approx. 5 seconds so that the leader tape clears the recording head.
- Forwarding or reversing the cassette tapes before recording prevents shock to the unit caused by slack.

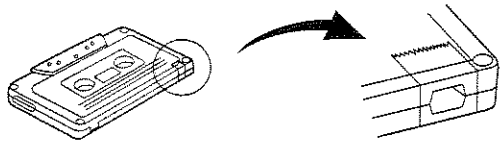
Do not use tapes of longer than 90 minutes.
Since tapes of more than 90 minutes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit.

How can you prevent accidental erasure?

When the tab on the cassette shell is broken out with the tip of a screwdriver, it will not be possible to activate the recording function even by pressing the ●/■ button, so valuable recordings will not be erased by accident.



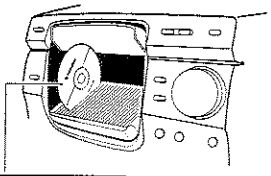
When you want to record again on a cassette with broken erasure prevention tabs, cover the hole with a double layer of adhesive tape.



Use only TYPE I (Normal) tapes with this unit; TYPE II (CrO_2) and TYPE IV (Metal) tapes cannot be used.

READ THIS BEFORE OPERATING THE CD PLAYER

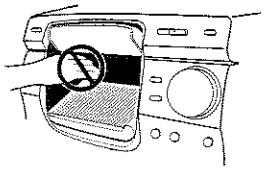
- When loading a disc in the rack, make sure the label side of the disc is on the right.



The label printed side is on the right.

- Open and close the hood gently.
- You cannot operate the unit when the hood is open. Close the hood before operating.
- Do not place anything other than compact discs in the rack.
- Do not use an 8 cm (3-inch) CD adaptor.
- Place only one CD in each rack slot.
- **Never insert more than one disc at a time into one slot. This can scratch or damage the discs.**

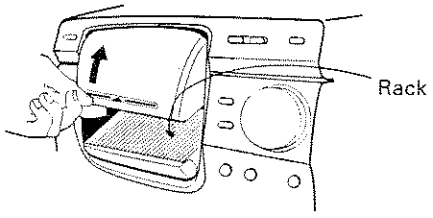
- When closing the hood, be careful not to catch your fingers in it. Never put your hand or any object inside the unit.



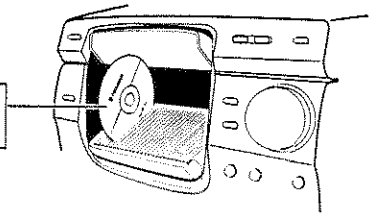
- If you load both 12 cm (5-inch) and 8 cm (3-inch) discs in the rack, exchanging 8 cm (3- inch) discs become more difficult. You are recommended to load 12 cm (5-inch) discs from the left, and 8 cm (3-inch) discs from the right.
Use this unit on a flat surface.

LISTENING TO COMPACT DISCS

1

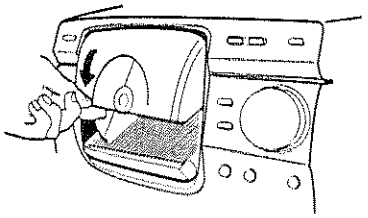


2



The label printed side is on the right.

3



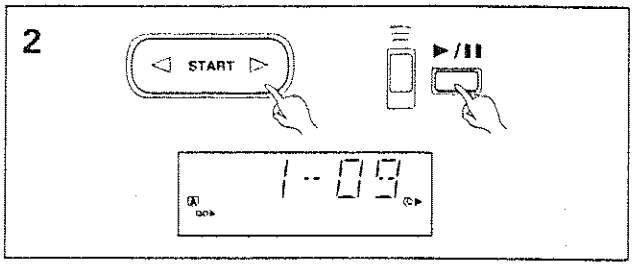
Before operating the player

Loading discs in the rack inside the hood
You can load up to 25 discs in the rack.

1. **Pull up the hood handle marked PULL UP.**
2. **After confirming that the hood is completely open, load discs with the label side on the right.**
3. **Close the hood gently.**

To remove a disc, if a disc is playing, press the STOP button ( ) continuously for 10 seconds (player operation completely stops), and then pull up the hood handle.

Never open the hood during play, during disc selection or at any other time while the internal mechanism is operating. Opening the hood except in stop mode may cause malfunction. Confirm that play has stopped before opening the hood.



Listening to tracks in order from the first track

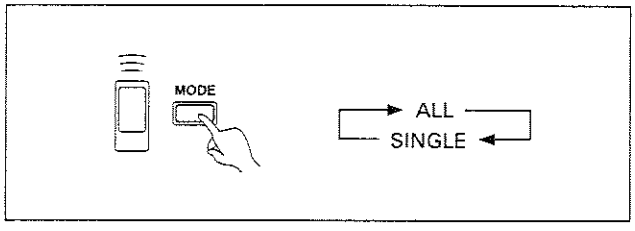
1. **Load a disc in the rack, and close the hood.**
2. **Press the START button.**
   Play starts from the first track of the most recently loaded disc.

TO STOP PLAYBACK

Function	Buttons
To stop playback	STOP ■
To stop playback temporarily	START ►/II
To play back again	START ►/II

TO SEARCH FOR A PARTICULAR TRACK

Function	Buttons
To search for the beginning of a track	⏮ , ⏭ Press and release quickly
To rapidly advance forward or backward (Main unit only)	◄◄ , ►► Keep pressed.



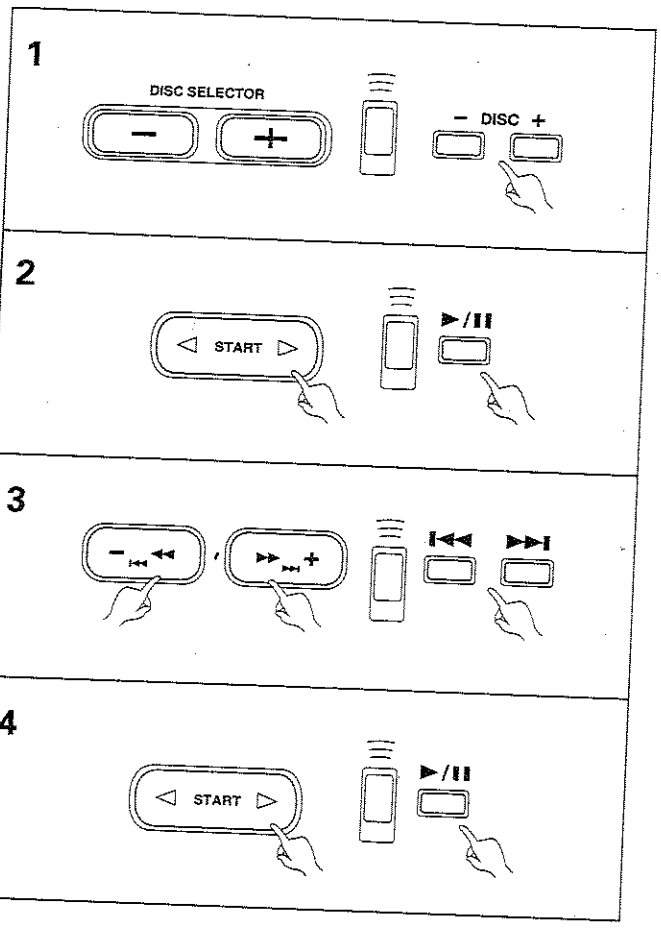
Select the disc play mode

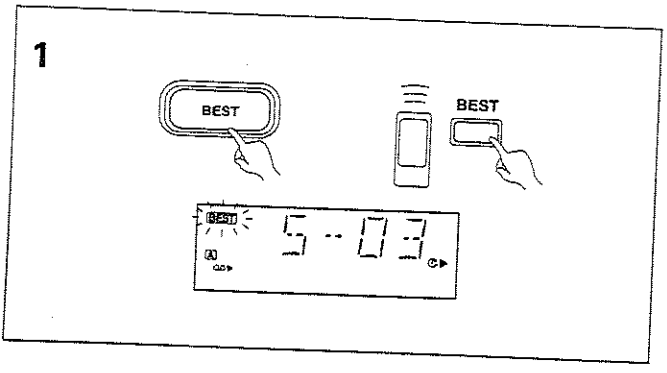
To select the play mode, press the MODE button on the remote control unit while the unit is stopped or in the play mode.
ALL : Plays all discs loaded.
SINGLE : Plays only one disc.

Last Disc memory

- If you press the STOP (■) button (or the Stop (■) button on the remote control), or turn off the power, this unit memorizes the disc that was playing. When you press the Start button again, that disc starts playing from the beginning.
- During normal play, if the single mode is selected, the single disc play mode will be set for the currently playing disc.
- If the MODE button is pressed when the unit is in the program mode, the program contents will be canceled.
- When the power is first turned on, play will begin from the last mode selected previously.
- If no play mode has been selected, play begins by default in the all disc mode.
- After Best Selection Memory play (Refer to page 16) has finished, or after a program has been canceled, you return to the ALL mode.

CONVENIENT CD FUNCTIONS





To play back desired tracks

- **Playing a desired disc (Disc Search)**
  Follow procedures 1 and 2 in order.

- **Playing desired tracks from a selected disc (Direct Track Selection)**
  Follow procedures 1, 3, and 4 in order.

1. **When the unit is not operating or when a disc is playing, press the DISC SELECTOR button to select the desired disc number.**
   - If you do this while a disc is playing, the selected disc starts playing automatically.
2. **Press the START button.**
   The selected disc starts playing from the first track.
3. **Select the desired track using the ⏮ or ⏭ button.**
   If you do this while a disc is playing, the selected track starts playing automatically.
4. **Press the START button.**
   The selected track starts playing.

   - Direct track selection is not possible during programmed play.

Best selection memory

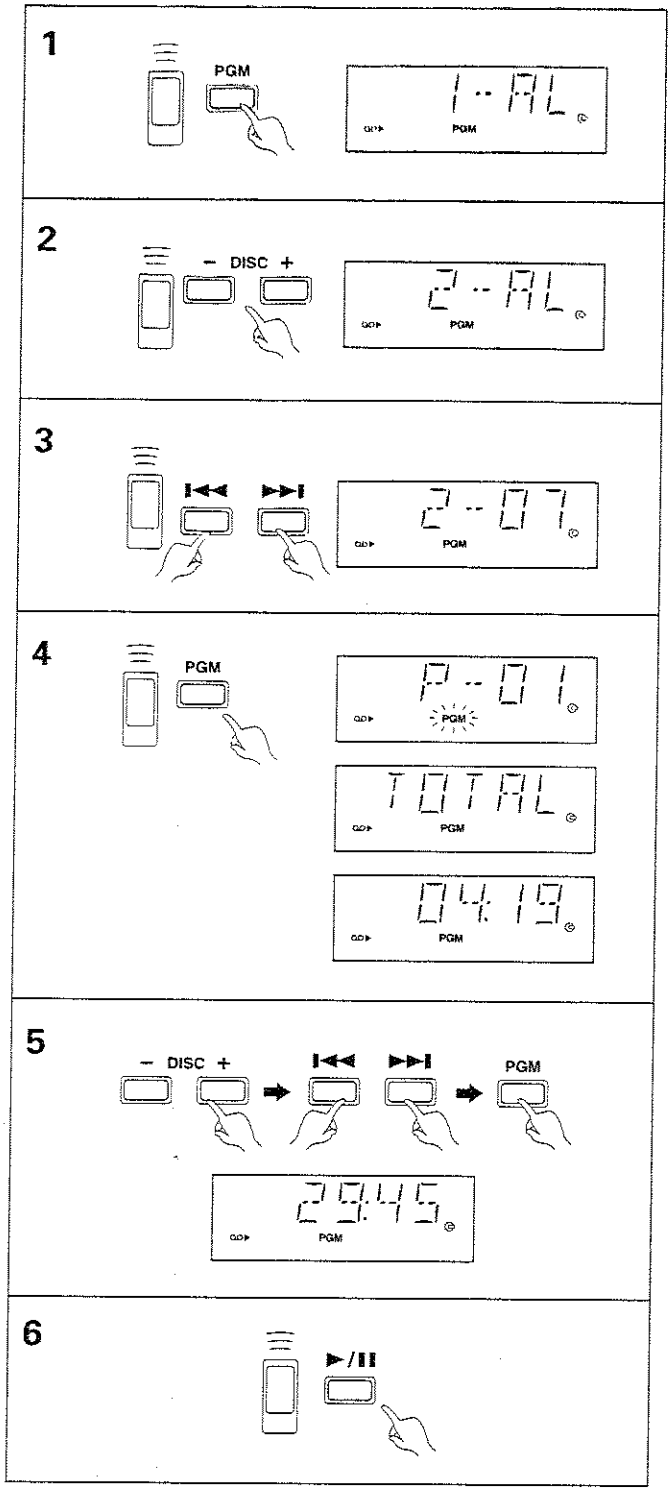
- You can memorize a desired track when it is playing by simply pressing the BEST button.
- You can memorize up to 25 tracks.

1. **Press the BEST button when a desired track is playing.**
   The disc number and track number are memorized.
2. **Repeat the procedure 1 to complete the best selection memory.**

To listen to a memorized track:
Press the BEST button when no disc is playing, and the last memorized track starts playing.

Clearing memory:
During Best Selection Memory play, press the CLEAR button on the remote control. The track playing is cleared from memory.

- Best Selection Memory operation is not possible during Best Selection Memory play.
- A memorized track will remain in memory unless you disconnect the power cord.
- To memorize the 25th track, press the BEST button. The least recently memorized track is erased from memory, and the 25th track is memorized.



Programmed play

- You can create a program with up to 32 steps.
- Programs can be created by remote control.

Example:
When programming the 7th track on the 2nd disc for the 1st step.

1. **Press the program (PGM) button when no disc is playing.**
2. **Select a disc number with the DISC (–, +) button.**
3. **Select a track number using the ⏮ or ⏭ button.**
4. **Press the program (PGM) button.**
   "P-01" is displayed. This means it is the first step.
   Repeat procedures 3 and 4 to program other tracks on the same disc.
5. **Repeat procedures 2 to 4 until you have programmed all the desired tracks.**
6. **Press the Play/Pause (►/II) button.**
   Play of programmed tracks starts in order.

Disc All Program
Repeat programmed play procedures 1, 2, and 4 in order.
This programs all tracks on selected discs.

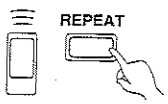
Canceling programmed play
During play, press the STOP button twice.
When no disc is playing, press the STOP button once.
(When no disc is playing, if you press the BEST button, PREVIOUS button, MODE or RANDOM button, program is canceled.)

Clearing program steps
Press the remote control unit's CLEAR button during programming.
Each time you press the button, the last programmed step is cleared.

When programming, each disc's TOC information is read, and the total play time of programmed tracks is calculated.
If you want to know how long the programmed play time is, wait for a while after procedure 5 and it is indicated in the display. (Max. 99 min. 59 sec.)
If you perform procedure 6, open the hood or turn the power off before calculation has finished, calculation is not performed.

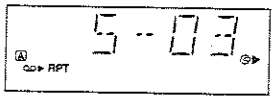
To repeat playback (Repeat play)

- This repeats play of the discs set for a selected play mode.
- Select Repeat Play by remote control.

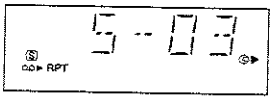


Press the REPEAT button while a disc is playing.
Play of discs set for the selected play mode is repeated.

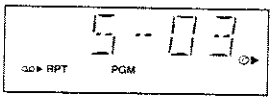
ALL Disc Repeat : Press the REPEAT button during All mode play.
Play of all tracks on all discs (1 to 25) is repeated.



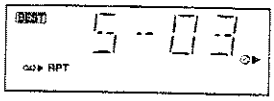
SINGLE Repeat : Press the REPEAT button during Single mode play.
Play of all tracks on one selected disc is repeated.



PROGRAM Repeat : Press the REPEAT button during programmed play.
Play of all programmed tracks is repeated.



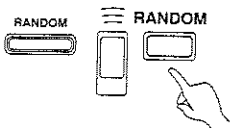
Best Selection Repeat : Press the REPEAT button during Best Selection Memory play.
Play of all songs memorized in Best Memory is repeated.



To cancel repeat play:
Press the REPEAT button.
- When repeating only one track, program the desired track, and press the REPEAT button.

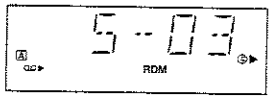
Random play

- Depending on the playback mode, the tracks on the loaded disc will be played back in random order (once each). When all tracks on the disc have been played back, the player will stop.
- Random play of up to 25 tracks is possible.

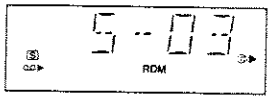


: Press the RANDOM button during play or when no disc is playing.
Random play of tracks set for each play mode begins.

ALL Random : Press the RANDOM button during All mode play.
A total of 25 tracks from all the discs are played at random.



SINGLE Random : Press the RANDOM button during Single mode play.
Tracks from a single disc are played at random.



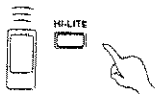
If you press the REPEAT button during Random play, tracks are played at random.

To cancel random play:
Press the STOP (■) button.
Random play is canceled, and play stops.
- When you press the DISC (–, +) buttons, random play is canceled, and normal play resumes.

NOTES:
- *A programmed selection of tracks (program play) cannot be played in random order. (If the RANDOM button is pressed during program play, the program will be canceled and the ALL mode random play will start.)*
- *If less than twenty-five discs are loaded in the ALL mode, the same track may be played more than once.*

Fast track search (Hi-Lite Scan)

- A passage about 10 seconds long starting from one minute into each track on discs set for a selected play mode is played.
- Select Hi-Lite Scan by remote control.



Press the HI-LITE button, and a passage about 10 seconds, starting from one minute into each track on each of the discs set for a selected play mode is played.

Disc Hi-Lite Scan : Press the HI-LITE button when no disc is playing.
A passage about 10 seconds, starting from one minute into the first track on each disc is played, starting from the first disc.
Disc Hi-Lite Scan stops when all the discs have been scanned.

Track Hi-Lite Scan : When no disc is playing, if you press the HI-LITE button twice, a section from each track on each loaded disc is played for about 10 seconds, starting from one minute into each track. Track Hi-Lite scan stops when all the tracks have been scanned.

Program Hi-Lite Scan : Press the HI-LITE button during program mode.
A passage about 10 seconds, starting from one minute into each of the programmed tracks is played.

Best Selection Memory Scan
: Press the HI-LITE button during Best Selection Memory play.
A passage about 10 seconds long starting from one minute into each of the Best Selection tracks is scanned.

- If you press the START button when scanning a track you want to listen to, Hi-Lite scan is canceled and normal play of that track resumes.

To cancel scanning :
Press the Stop button.

- Each time you press the HI-LITE button, scanning switches between disc scan and track scan.
- During track scan, you can skip tracks using the ⏮, ⏭ buttons.

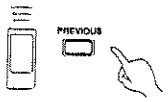
NOTE
With tracks that are shorter than one minute or shorter than the desired time you have set, a passage about 10 seconds starting from the beginning of the track is played. If a track is shorter than ten seconds, the entire track is scanned from start to finish.

Previous disc scan

- Disc HI-LITE scan is performed in the most recently listened to order.
- 25 discs are memorized.

Example:
When the disc play order was 1st disc, 2nd disc, 9th disc, 12th disc, and 13th disc.

Press the PREVIOUS button during play.



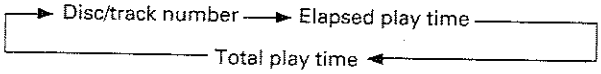
A passage about 10 seconds, starting from one minute into the first track on each disc is played, starting from the 13th disc followed by the 12th, 9th, 2nd, and 1st discs in order (the order in which they were most recently listened to).

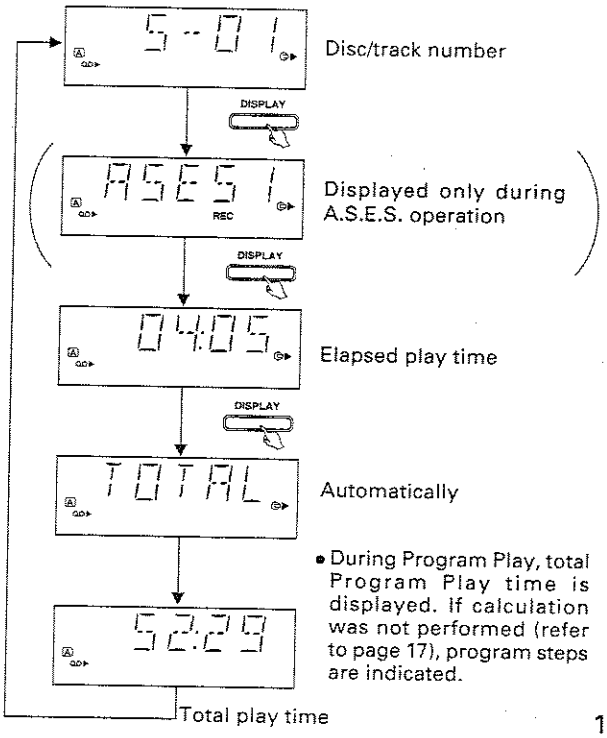
- Press the START button when you hear a disc you want to listen to. Previous Disc Scan is canceled, and normal play resumes.

To cancel Previous Disc Scan:
Press the STOP button.
- Discs played in Random, HI-LITE Scan, Program, and Best Memory modes are not memorized.

Changing the display

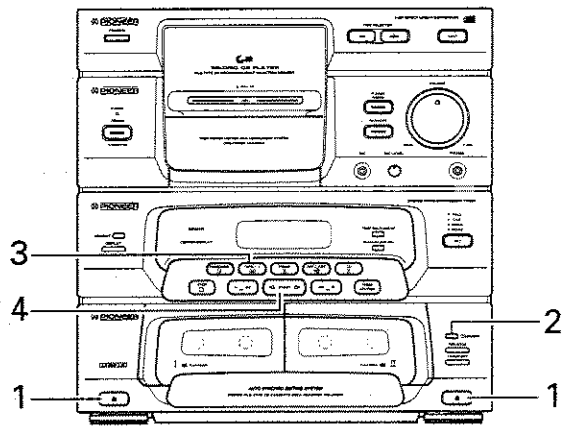
The display changes each time you press the button.

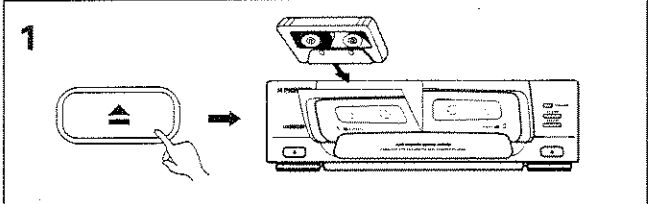


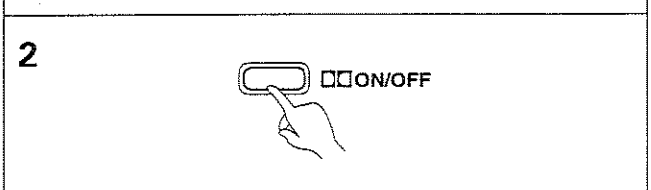


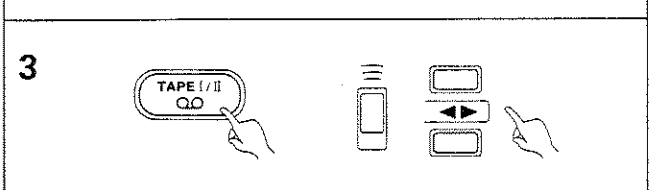
- During Program Play, total Program Play time is displayed. If calculation was not performed (refer to page 17), program steps are indicated.

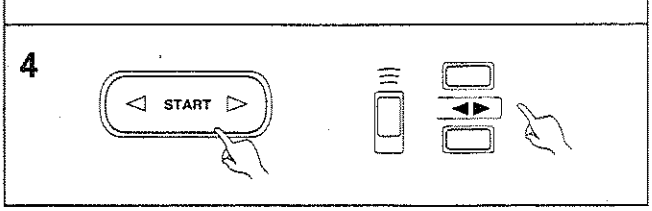
PLAYING TAPES











Basic operation

- Use of Type I (Normal) tape is recommended. (Type II (High/CrO_2) or Type IV (Metal) tape playback will not exhibit full performance potential.)
- Tapes may be played back in TAPE I or TAPE II but not in both decks at the same time.

1. **Press the Eject button (⏏) and load a recorded tape, then push in the cassette door until it locks.**
   For relay playback, load tapes into TAPE I and TAPE II. Relay playback is repeated as follows (32 sides maximum):

   TAPE I forward playback (►) → TAPE I reverse playback (◄) → TAPE II forward playback (►) → TAPE II reverse playback (◄) → TAPE I forward playback (►)

   If there is a tape in only one deck, that deck continuously plays both sides of the tape (16 sides maximum).

2. **Set DOLBY NR to the same position used for recording.**
   Tapes recorded using Dolby noise reduction should always be played back with the noise reduction system on.

3. **If tapes are loaded in both deck I and II, press the TAPE I/II (Function) button to select the tape to be played back first.**
   When a tape is loaded, the loaded deck will automatically be selected.
   Each press of the button alternates TAPE I and TAPE II as shown below:

   TAPE I → TAPE II → TAPE I

   Selected one starts playback.

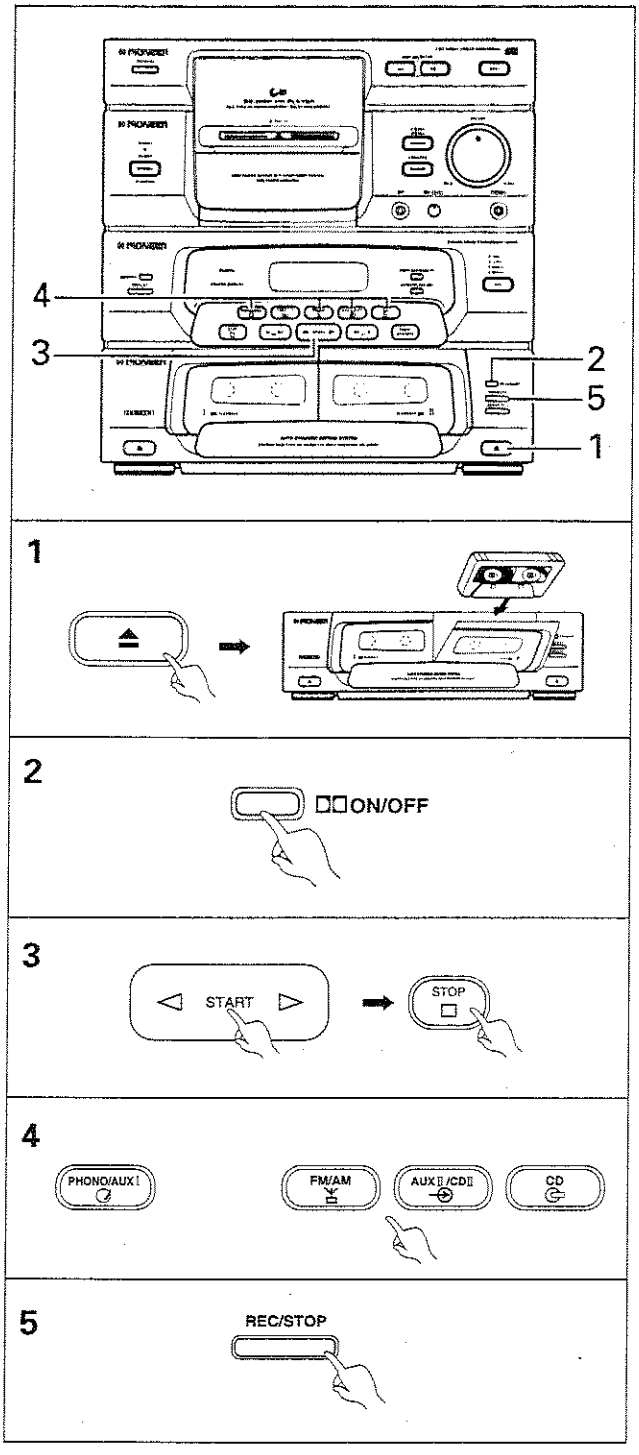
4. **Press the START button to switch to the direction you want to start playback.**
   (Indicator shows you the tape transport direction.)
   ► : Forward playback
   ◄ : Reverse playback

When you use the remote control unit, press the Play button (◄►) for the deck you choose to play (TAPE I or II).

To stop playback:
Press the STOP (■) button.

To fast forward or rewind, press ⏮ or ⏭ button.

RECORDING



Recording on tape

- Use of Type I (Normal) tape is recommended. (Type II (High/CrO_2) or Type IV (Metal) tape recording will result in problems such as incomplete erasure of previous recordings and the tape will not exhibit its full performance potential.)

1. **Load a tape for recording into deck II.**
   - Wind the tape past its leader portion so that the magnetic surface is exposed.
   - Recording cannot be performed on a tape if the accidental erasure prevention tab has been broken out.
   - Insert the tape for recording and close the cassette door with your hand.
2. **Use the DOLBY NR ON/OFF button to select the desired noise reduction mode.**
   - Each time the button is pressed, the mode changes in the following order:

   → on → off →
3. **Press the START button while in the TAPE function, switch to the tape direction you want to record in, and press the STOP button.**
   ►: Recording on side A followed by recording on side B.
   When recording on side A (►) has finished, recording on side B (◄) automatically starts.
   ◄: Recording on one side
   Recording is performed in the reverse (◄) direction, so be sure to load the tape accordingly.
4. **Use the Function button to select the input source.**
   - For tape copying (recording from deck I to deck II), use the tape copy function.
5. **Press the REC/STOP button.**
   Recording starts, and the "REC" indicator lights.
   - Microphone-mixing sounds can also be recorded if desired (see page 24).

To cancel, press the REC/STOP button or the TAPE II Stop button on the remote control.

NOTES:
- *You cannot switch inputs during recording.*
- *This unit uses ALC (Auto Level Control) to automatically set recording level.*
- *During recording, Sound Field Control and P.Bass do not function. The karaoke ON/OFF button does not operate during recording either.*

Copying a tape

The contents of the tape in TAPE I can be copied onto the tape in TAPE II.
Tape copying should begin in the forward direction (►).

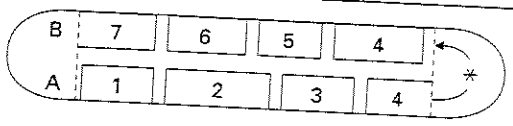
1. **Press the TAPE (I/II) function button of the main unit to select the cassette tape input function.**
   On the remote control unit, select the cassette deck input with the PLAY button (◄ ►).
2. **Load the recorded tape into TAPE I and the tape for recording into TAPE II.**
   - Wind the tape forward past the leader to the start of the magnetic coated portion.
   - The tape copy mode is canceled when the end of either of the tapes is reached, so it is advisable to use tapes of the same length.
3. **Press the ASES/COPY button.**
   The tape copy starts.

To stop copying:

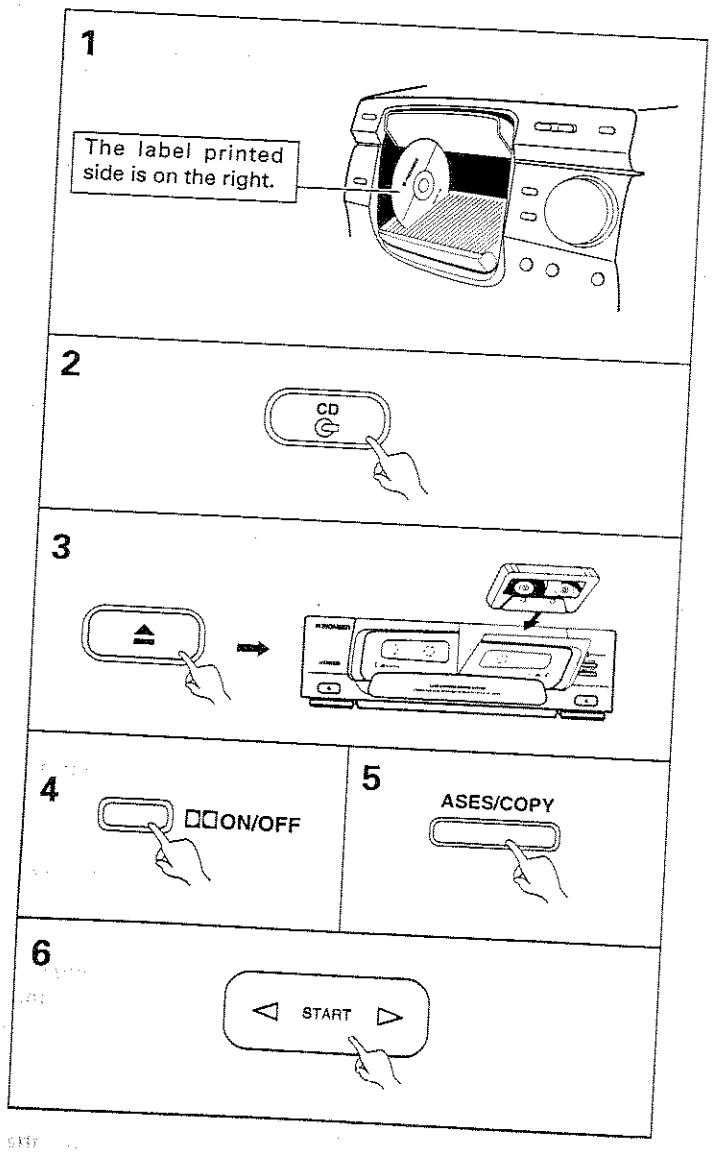
Press the Stop button ■. (On the remote control unit, press the TAPE I or TAPE II stop (■) button.) Both decks will stop simultaneously.

- Regardless of the Dolby NR setup, the tape created by copying has exactly the same contents as the copy source tape.

RECORDING FROM A CD TO CASSETTE TAPE



A, B : Indicates the side of the tape.
1–7 : Indicates the number of the track.
***** : Indicates the leader part of the tape.



A.S.E.S. (Auto Synchro Editing System)

■ **What is A.S.E.S.?**

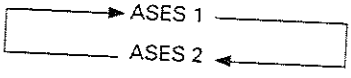
- A.S.E.S. is a special function which automatically programs the recording of CD tracks, so that the track which is only partially recorded at the end of cassette side A is recorded again in full at the beginning of cassette side B.
- When the A.S.E.S. function is used, if the playback mode has been selected on the CD player, recording will be performed in the sequence of the playback mode:

ALL : All discs recorded A.S.E.S.
SINGLE : Only the displayed disc is recorded A.S.E.S.
PROGRAM : The selected tracks only are recorded A.S.E.S.

Using the A.S.E.S. Function

1. **Load discs in the CD player. (Refer to page 25.)**
   - Use the program function to record tracks in a specific order.
   - When recording beginning with a specific disc, use the DISC SELECTOR button to select the disc number.
   - **Never insert more than one disc at a time into one slot. This can scratch or damage the discs.**
2. **Press the CD function button.**
   Play starts automatically, so be sure to press the STOP button.
3. **Load a tape for recording into TAPE II.**
   - Recording starts in the forward direction.
   - Wind the tape past its leader portion so that the magnetic surface is exposed. (Refer to page 21.)
4. **Set the DOLBY NR ON/OFF button to the desired noise reduction mode.**
5. **Press the ASES/COPY button.**
6. **After confirming that "ASES 1" is indicated in the display, press the START button (◄ ►).**
   A.S.E.S. starts.

After performing operation 5, use the ⏮ or ⏭ buttons to switch as follows.



When "ASES 2" is displayed, if you perform operation 6, the first tracks only on each disc are recorded, and programs are canceled.

To cancel the A.S.E.S.:

Press the STOP button (■).

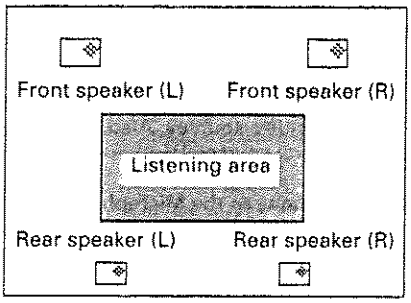
NOTES:

- *By setting the CD player for all-track repeat in one of the disc modes, you can record a tape fully without leaving any remainder (repeat A.S.E.S.).*
- *During use of the A.S.E.S. function, near the end of a tape the CD player may skip to the next track, or the CD may be interrupted after ending its play. In this case, record the remaining tracks manually, without use of the A.S.E.S. function.*

SOUND FIELD EFFECTS

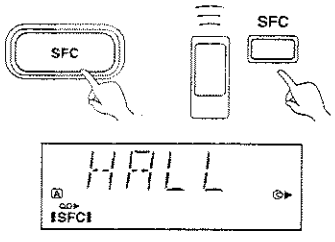
Before using this component's sound field effects, you should learn about the various sound field modes, and speaker installations and roles.

Rear speaker system installation example



L : Front speaker (Left)
R : Front speaker (Right)
S : Surround speakers (sold separately)
○ : Must be connected
◎ : More effective when connected

Mode		Sound field effect	Speakers		
			L	R	S
SFC	HALL	Produces the effect of an expansive concert hall with rich spatial breadth.	○	○	◎
	LIVE	Produces the effect of an exciting live concert atmosphere.	○	○	◎
	DISCO	Produces the effect of a discotheque with powerful bass rhythm.	○	○	◎
	MOVIE	Produces the effect of three-dimensional movie theater space, effective for use when watching video movies.	○	○	◎

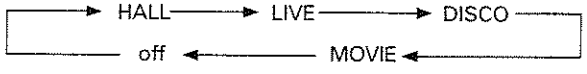


Example: HALL is selected.

Selecting a preset sound setting

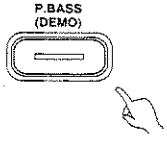
What is "sound field control (SFC)"?
This function allows you to select four different sound fields, each of which produces an effect similar to that heard in the respective location settings.

1. **Use the SFC button to select the desired sound field.**
   Each time the button is pressed, the sound field changes in the following sequence:

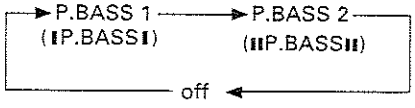


To listen without any sound field control, set to OFF.
The sound field control is canceled.

Boosting the bass sound

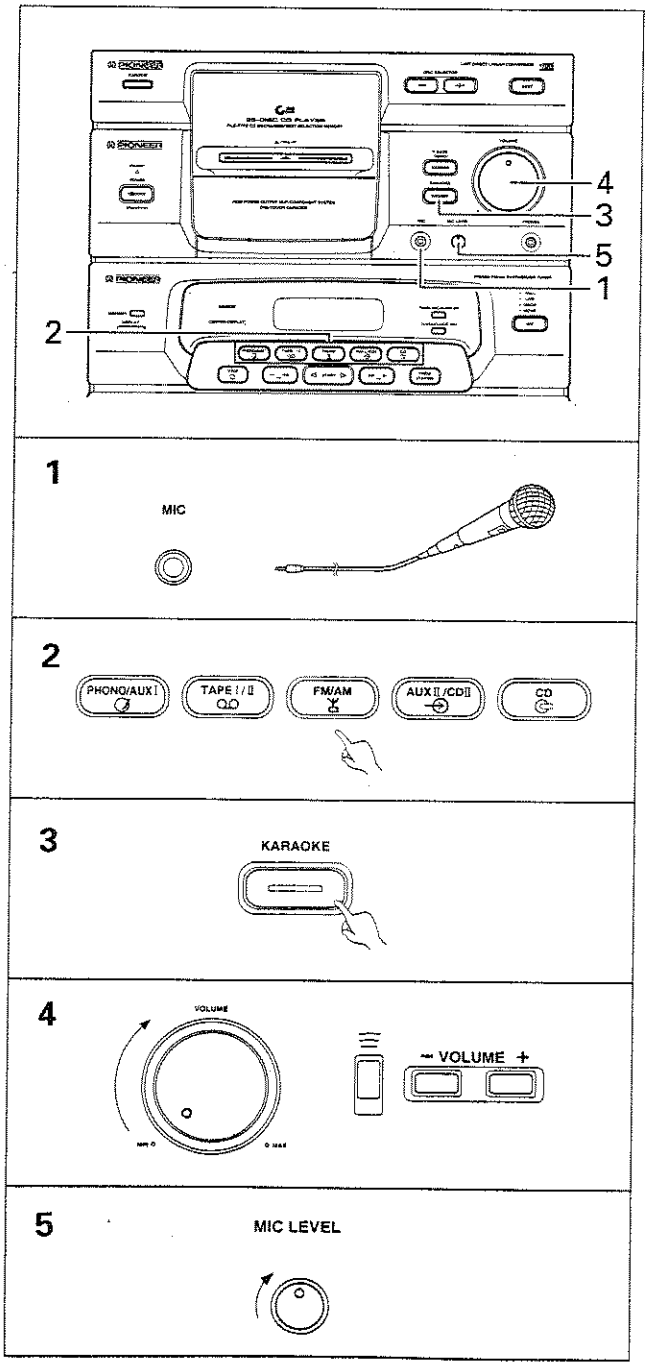


Each time the P.BASS button is pressed, the display changes in the following sequence:



P.BASS1 : Enhanced bass
P.BASS2 : Further enhanced bass compared with P.BASS1.

FUN WITH KARAOKE FUNCTIONS



One-touch Karaoke Function

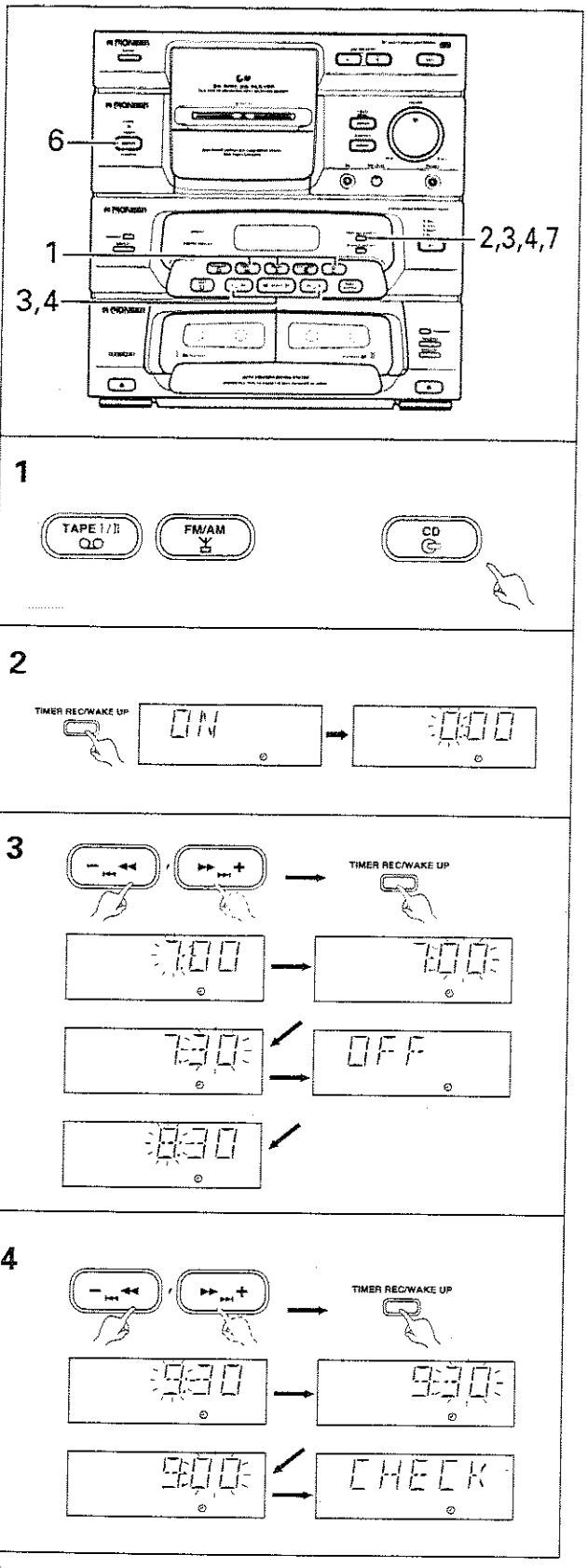
- The one-touch karaoke function is an electronic means allowing the reduction of vocal frequency bands of music sources (CD, tape, FM/AM broadcasts), in this way, creating a simple form of background accompaniment for karaoke sing-alongs when used in combination with a microphone.
  (Note that this function reduces but does not entirely eliminate the vocal bands of music sources. Also, the function does not operate with monaural sources.)

1. **Attach the microphone to the Microphone jack (MIC).**
   The Microphone jack accepts microphone equipped with a mini-plug (diameter 3.5 mm).
2. **Select the desired music source.**
3. **Press the KARAOKE button.**
   To cancel karaoke, press the KARAOKE button again.
   When KARAOKE mode is on, P.BASS1 is selected initially.
4. **Adjust the volume as desired.**
5. **Use the MIC LEVEL control to adjust the microphone sound volume.**

NOTES:

- *After completing use of a microphone:*
  Return the microphone level control to the minimum position, then disconnect the microphone plug from its jack. Keep the microphone level control set at minimum when not using a microphone.
- *By performing recording onto deck II while using the one-touch karaoke function, you can record the combined (mike-mixing) musical results of source and your singing. Note that microphone mixing cannot be performed, however, when TAPE is selected as the music source.*
  Also, during recording, the sound field control and P.BASS functions do not operate.
- *The karaoke function may not operate with optimum effect for some music sources, for example, with music sources featuring duets or where the vocals are otherwise divided between right and left channels or with music sources produced with heavy echo effect.*
- *If microphone feedback ("howling") occurs, perform the following:*
  ① *Lower the microphone sound level (rotate the MIC LEVEL control to the left).*
  ② *Remove the microphone as far as possible from the speakers.*
  ③ *Lower the overall volume.*
- *When not using the microphone, set the MIC LEVEL control to minimum.*

WAKE-UP TIMER



Setting the wake-up timer

Example : When setting from 7:30 AM to 9:00 AM. (The function is set to FM 87.50 MHz.)

Before beginning

① Prepare the function you want to play.
CD : Load a disc in the CD player.
Tuner : Tune into the radio station you want to listen to. That station is registered when the timer is set.
Tape : Load a tape in the cassette deck. (Playback starts on Tape I in the forward (►) direction)
② Set volume to the desired level with the volume knob.

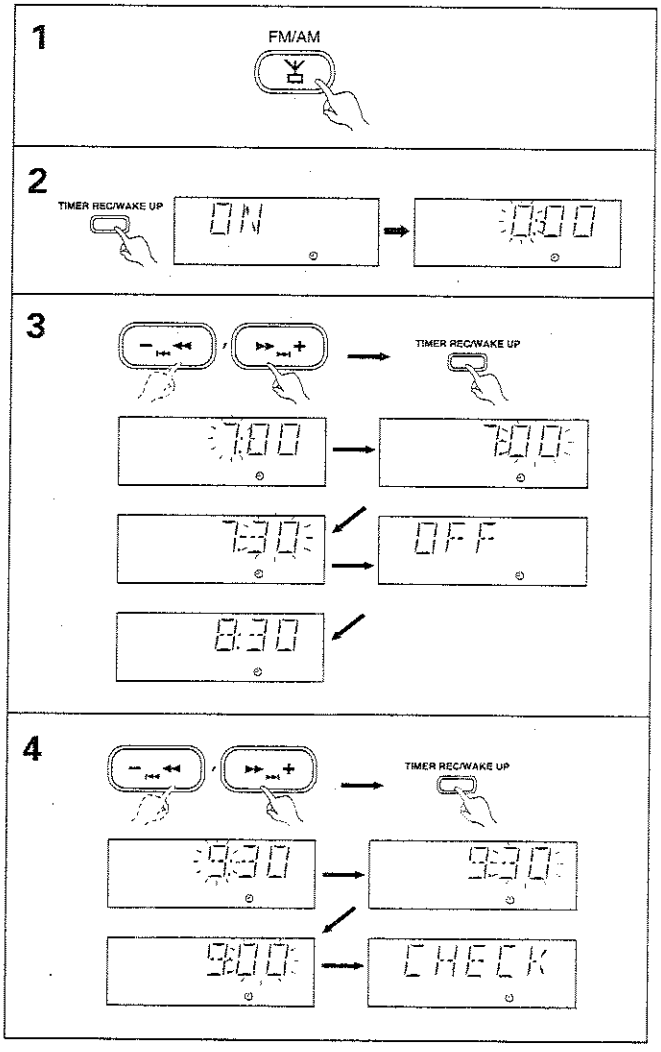
1. **Switch power ON, and select the desired function.**
2. **Press the TIMER REC/WAKE-UP button.**
3. **Set the timer start time. First, set the hour using the ⏮ or ⏭ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
4. **Set the timer finish time. A finish time one hour later than the start time is automatically displayed. First, set the hour using the ⏮ or ⏭ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
5. **The unit switches to the Check mode, and start/finish times and the function are displayed.**
6. **Switch power OFF. The unit is now in the STANDBY mode.**
7. **Press the TIMER REC/WAKE-UP button until the timer indicator (🕘) lights. The mode then changes to the Check mode.**

Canceling the wake-up timer

After setting or during setting, press the TIMER REC/WAKE-UP button until the timer indicator (🕘) goes off.

- Either Wake-up timer or Timer recording setting is possible, but not both.
- If you do not cancel the wake-up timer, it will operate at the same time every day.
- When you want to change timer settings or when you make a mistake during setting, repeat setting procedures from the beginning.
- If you press the TIMER REC/WAKE-UP button during timer operation, timer operation is canceled.
- Because this unit has a last disc memory (p.15), the wake-up timer plays the last disc you were listening to before power was switched OFF.

TIMER RECORDING



Timer recording setting

- Records an FM or AM broadcast at the set time.

Example : When setting from 7:30 AM to 9:00 AM.

Before beginning

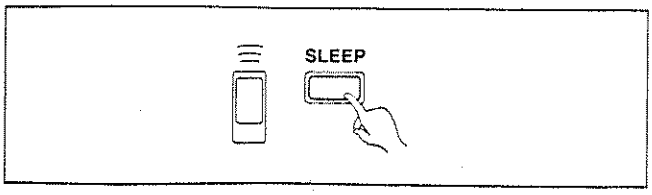
① **Load Tape II with a cassette tape for recording. (Recording begins in the forward direction.)**
Set the tuner to the station you want to record.
The station you set here is memorized.
② **Set volume to the desired level with the volume knob. (If you're going out, set to a low level.)**

1. **Switch power ON, and select the tuner (FM/AM) function.**
2. **Press the TIMER REC/WAKE-UP button.**
3. **Set the timer start time. First, set the hour using the ⏮ or ⏭ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
4. **Set the timer finish time. A finish time one hour later than the start time is automatically displayed. First, set the hour using the ⏮ or ⏭ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
5. **The unit switches to the Check mode, and start/finish times and the function are displayed.**
6. **Switch power OFF. The unit is now in the STANDBY mode.**
7. **Press the TIMER REC/WAKE-UP button twice so that the timer indicator (REC 🕘) lights. The mode then changes to the Check mode.**

To cancel:
After setting or during setting, press the TIMER REC/WAKE-UP button until the timer indicator (REC 🕘) goes out.

- Either Wake-up timer or Timer recording setting is possible, but not both.
- After timer recording is performed once, settings are canceled.
- When you want to change the timer recording settings or when you make a mistake during setting, repeat setting procedures from the beginning.
- If you press the TIMER REC/WAKE-UP button during timer operation, timer operation is canceled.

SLEEP TIMER



- Power turns off automatically after the specified time has elapsed.
- Can be operated with the remote control unit.
  Each time the SLEEP button is pressed, the setting changes in the following sequence:

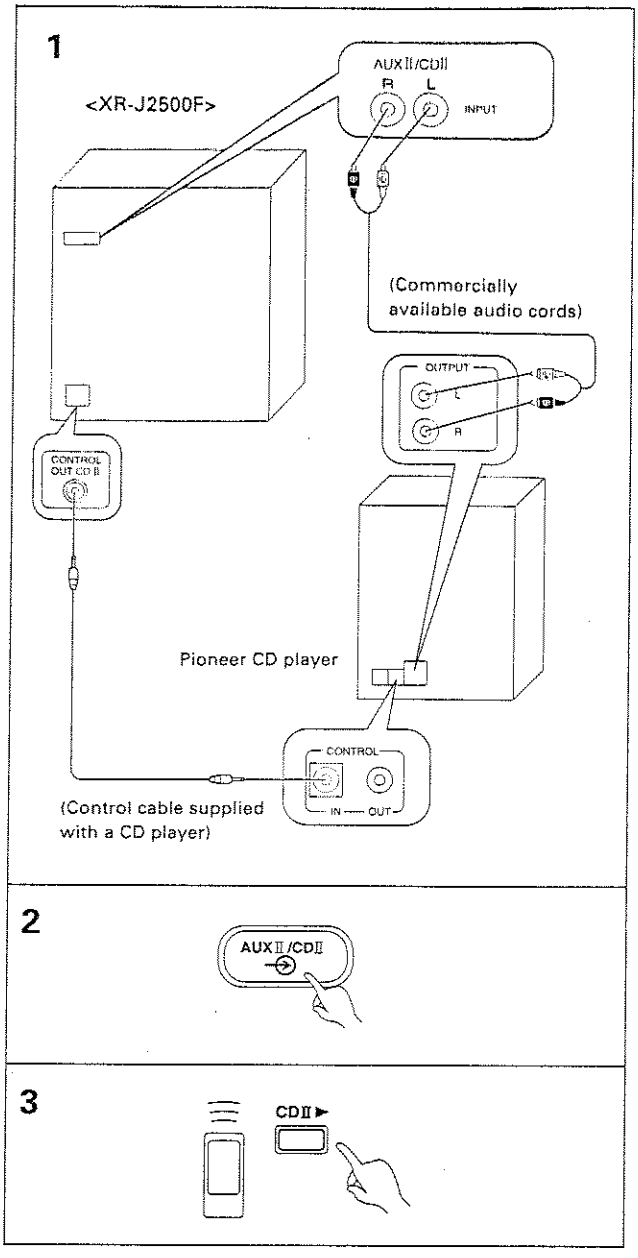
AUTO (AUTO SLEEP) → OFF 90 (90 min) → OFF 60 (60 min) → OFF 30 (30 min) → SLEEP off (0) → AUTO (AUTO SLEEP)

NOTE:
If you press the SLEEP button during Sleep operation, the time remaining till the power turns off is displayed. Do not press the SLEEP button when the remaining time is displayed. Otherwise, the setting changes and the sleep timer cannot function properly.

AUTO SLEEP

- If you press the SLEEP button during CD play, tape playback, or during recording, and select "AUTO", power is automatically switched OFF a few minutes after the CD or tape stops playing, or recording finishes.
- If AUTO SLEEP is used during relay playback, power automatically switches OFF after playback of two sides when only one cassette tape is loaded, and after playback of four sides when two cassette tapes are loaded.

CONNECTING A CD PLAYER TO THIS UNIT



- If you connect a Pioneer CD player that has a control jack, you can use this unit's remote sensor as the connected CD player's remote sensor.

1. **Connect this unit's AUX II/CD II INPUT jacks to a Pioneer CD player's OUTPUT jack. And connect this unit's CONTROL OUT CD II jack to a Pioneer CD player with a CONTROL IN jack.**
2. **Press the AUX II/CD II function button.**
3. **Operate with this unit's remote control CD II play button or with the CD player's remote control.**
   Refer to the CD player's operating instructions for details concerning operation.

NOTES:

- *If the function is not set to AUX II/CD II, the connected CD player cannot be operated.*
- *If the output jack of the CD player is not connected to this unit's IN (AUX II/CD II) jack with audio cords, the CD player cannot be operated.*

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.
If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

	Symptom	Cause	Remedy
General	**Power is OFF.**	• The cooling fan vent is blocked or obstructed.	• Locate the unit correctly. (Refer to page 4.)
	No sound from speakers.	• AC cord is unplugged. • All cords are not connected firmly. • Function is not set to the desired listening source on the receiver.	• Plug power cord into wall socket correctly. • Connect cords correctly referring to "CONNECTIONS", see page 6. • Select the correct function.
Cassette deck	**Cassette door does not open.**	• The power cord was unplugged while tape was running.	• Plug in the power cord.
	Cannot record.	• Erasure prevention tabs are broken off.	• Use a cassette tape that can be recorded on, or apply adhesive tape over tab holes.
	Sound is muffled. Previously recorded sounds remain.	• Dirty heads. • Type II (CrO_2) or Type IV (Metal) tape is used.	• Clean heads, see page 29. • Use the Type I (Normal) tape.
	Sound is muffled. Treble tones too strong.	• Tape recorded with DOLBY NR but played without.	• Turn on DOLBY NR system for tapes recorded with DOLBY NR.
CD player	**Playback does not start.**	• Disc is loaded with label side to the left. • Dirt, blur, etc. on the disc. • Disc has bad scratch or warp.	• Load a disc correctly with the label side (printed side) to the right. • Clean the disc. • Replace the disc.
	A connected CD player doesn't operate.	• The function is not set to external input (AUX II/CD II).	• Set the function to external input (AUX II/CD II).
Tuner	**Sound is distorted.**	• Antenna is not connected. • Antenna is in poor position. • Interference from nearby fluorescent light, hair dryer, or other electrical appliance.	• Connect the antenna correctly. • Change antenna's position. • Stop using device causing interference.
	There is no stereo sound.	• The MONO indicator in the display window on the receiver lights up.	• Press MONO so that the MONO indicator goes out, see page 11.
Others	**Timer does not work.**	• Current time is not set.	• Set current time.
	Remote control unit does not work.	• Batteries are run down. • A fluorescent light is shining on the remote sensor window.	• Replace with new batteries. • Move the unit away from the fluorescent light.
	In the one-touch karaoke mode, noise is heard when using microphone.	• Interference from nearby fluorescent light, hair dryer, or other electrical appliance.	• Stop using device causing interference.

Abnormal functioning of this unit may be caused by static electricity or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.
THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE	
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

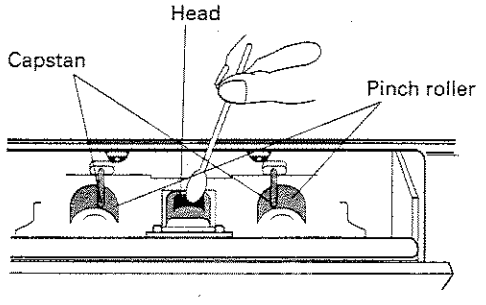
MAINTENANCE

Cleaning the head section

The heads, capstan and pinch roller are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration of sound quality. It is therefore recommended that the head section be cleaned regularly.

1. Turn the power off.
2. Press the Eject button ⏏ to open the cassette door.
3. Dip a cleaning swab into head cleaning fluid and use it to wipe the head, capstan, and pinch rollers. Wait 2-3 minutes until the cleaning fluid dries.

NOTE:
This unit uses a head-slant standby system, with the result that the heads are mounted at an angled position.



- The illustration shows TAPE I.

Demagnetizing the cassette deck heads

The deck heads may become magnetized after the deck has been used for a long period of time, or if a magnet or other magnetized object (screwdriver, etc.) is brought near the heads. Magnetization of the heads results in increased noise and reduced ability to reproduce high-frequency sounds.
In this case, please use a commercially available head demagnetizer at regular intervals to eliminate the magnetic field on the heads. When using a head demagnetizer, turn this unit's power switch ON. In order to prevent adverse effects on the receiver and speakers, however, **be sure to turn down the receiver's volume control to its lowest position,** and disconnect any headphones from their headphones jack. For details, consult the instructions accompanying your head demagnetizer.

Maintenance of external surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

SPECIFICATIONS (U.S. and Canadian models)

■ STEREO FILE-TYPE CD CASSETTE DECK RECEIVER: XR-J2500F

Amplifier Section
(U.S. and Canadian models)

Continuous average power output is 50 watts* per channel, min., at 8 ohms from 60 Hz to 15,000 Hz with no more than 1.0 % total harmonic distortion.**

FM Tuner Section
Reception frequencies ..... 87.5 MHz to 108 MHz
Antenna input ..... 75 Ω unbalanced

AM Tuner Section
Reception frequencies ..... 530 kHz to 1,700 kHz (10 kHz step)
Antenna ..... Loop antenna (included)

Double Cassette Deck Section
System type ..... 4-track, 2-channel stereo
Heads ..... Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor ..... DC servo motor x 1
Frequency response
Type I (Normal) tape ..... *35 Hz to 14,000 Hz ±6 dB
(recorded at –20 dB)
SN ratio ..... *56 dB
(peak recording level, audible compensation)
Dolby B type NR on ..... 10 dB compensation at 5 kHz

* Values measured in accordance with EIAJ standards.

■ FILE TYPE CD PLAYER

Type ..... Compact disc audio system
Usable discs ..... Compact audio discs
Channels ..... 2 channels (stereo)
Program steps ..... 32 steps maximum

■ ELECTRICAL REQUIREMENTS, ETC.

Power Requirements
U.S., Canadian models ..... AC 120 V, 60 Hz
Power Consumption
U.S. model ..... 160 W
Canadian model ..... 160 W
External dimensions ..... 360 (W) x 376.5 (H) x 369 (D) mm
14-3/16 (W) x 14-13/16 (H) x 14-1/2 (D) in.
Weight ..... 10.5 kg (23 lb 3 oz)

■ SPEAKER SYSTEMS: S-J2500

Enclosure ..... Bass-reflex bookshelf type
System ..... 17 cm 3-way system
Loudspeakers
Woofer ..... 17 cm cone type
Mid-range ..... 6.6 cm cone type
Tweeter ..... 1.6 cm dome type
Nominal Impedance ..... 8 Ω
Frequency range ..... 35 Hz to 20,000 Hz
Sensitivity ..... 88 dB/W at 1 m distance
Maximum power ..... 75 W
Dimensions ..... 240 (W) x 430.5 (H) x 225 (D) mm
9-7/16 (W) x 16-15/16 (H) x 8-7/8 (D) in.
Weight ..... 4.4 kg (9 lb 1 oz)

■ ACCESSORIES

Operating Instructions 1
FM antenna 1
AM loop antenna 1
Remote control unit 1
AA/R6 dry cell batteries 2
CD case stand 1

NOTE:
Specifications and design are subject to possible modifications without notice, due to improvements.

* Measured pursuant to the Federal Trade Commissions's. Trade Regulation rule on Power Output Claims for Amplifier.
** Measured by audio spectrum analyzer.

SPECIFICATIONS (European, U.K. and Australian models)

■ STEREO FILE-TYPE CD CASSETTE DECK RECEIVER: XR-J2500F

Amplifier Section

Continuous Power Output (RMS) ..... 50 W + 50 W
(1 kHz, T.H.D. 10 %, 8 Ω)
Continuous Power Output (DIN) ..... 39 W + 39 W
(1 kHz, T.H.D. 1 %, 8 Ω)
Music Power (DIN) ..... 60 W + 60 W

• *Above specifications are for European power supply of 230 V.*

FM Tuner Section

Reception frequencies ..... 87.5 MHz to 108 MHz
Antenna input ..... 75 Ω unbalanced

AM Tuner Section

(European and U.K. models)
Reception frequencies ..... 531 kHz to 1,602 kHz (9 kHz step)
Antenna ..... Loop antenna (included)
(Australian model)
Reception frequencies ..... 531 kHz to 1,602 kHz (9 kHz step)
530 kHz to 1,700 kHz (10 kHz step)
Antenna ..... Loop antenna (included)

Double Cassette Deck Section

System type ..... 4-track, 2-channel stereo
Heads ..... Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor ..... DC servo motor x 1
Frequency response
Type I (Normal) tape ..... *35 Hz to 14,000 Hz ±6 dB
(recorded at –20 dB)
SN ratio ..... *56 dB
(peak recording level, audible compensation)
Dolby B type NR on ..... 10 dB compensation at 5 kHz

* Values measured in accordance with EIAJ standards.

■ FILE TYPE CD PLAYER

Type ..... Compact disc audio system
Usable discs ..... Compact audio discs
Channels ..... 2 channels (stereo)
Program steps ..... 32 steps maximum

■ ELECTRICAL REQUIREMENTS, ETC.

Power Requirements
European model ..... AC 220-230 V, 50/60 Hz
U.K. model ..... AC 230 V, 50/60 Hz
Australian model ..... AC 240 V, 50/60 Hz
Power Consumption ..... 250 W
External dimensions ..... 360 (W) x 376.5 (H) x 369 (D) mm
Weight ..... 10.5 kg

■ SPEAKER SYSTEMS: S-J2500D

Enclosure ..... Bass-reflex bookshelf type
System ..... 17 cm 3-way system
Loudspeakers
Woofer ..... 17 cm cone type
Mid-range ..... 6.6 cm cone type
Tweeter ..... 1.6 cm dome type
Nominal Impedance ..... 8 Ω
Frequency range ..... 35 Hz to 20,000 Hz
Sensitivity ..... 86.5 dB/W at 1 m distance
Maximum power ..... 50 W
Dimensions ..... 240 (W) x 430.5 (H) x 231 (D) mm
Weight ..... 4.3 kg

■ SPEAKER SYSTEMS: S-J2500

Enclosure ..... Bass-reflex bookshelf type
System ..... 17 cm 2-way system
Loudspeakers
Woofer ..... 17 cm cone type
Tweeter ..... 6.6 cm cone type
Nominal Impedance ..... 8 Ω
Musical power (DIN) ..... 50 W
Dimensions ..... 212 (W) x 430 (H) x 223 (D) mm
Weight ..... 3.9 kg

■ ACCESSORIES

Operating Instructions 1
FM T-type antenna 1
AM loop antenna 1
Remote control unit 1
AA/R6 dry cell batteries 2
Speaker cords (supplied with U.K. and European model speaker systems only) 2
CD case stand 1

NOTE:

Specifications and design are subject to possible modifications without notice, due to improvements.